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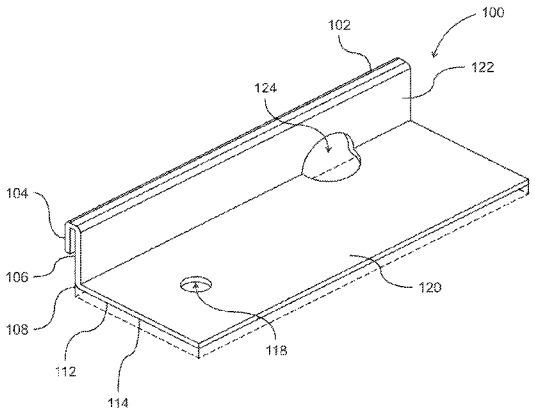


Fig. 4b

(57) **Abstract**: The present invention provides a lath furring strip having improved water-resistant and insulation features. The lath furring strip has portions of the mounting leg height not exceeding 0.365 inches for proper plastering of a wall. The lath furring strip is integrated into other architectural structures such as reveals, expansion joints and window flange coverings. By integrating these structures with a lath furring strip having water proofing features, there is increased water proofing of the entire architectural structure. One or more moisture barriers can easily be applied to the wall or furring strips that prevents seepage of moisture from the stucco on the lath to a wall or framing. By using an improved lath furring strip, fewer penetrations are needed to secure the furring strip to a wall compared to securing a lath directly to a wall.

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# Lath Furring Strips

## CROSS-REFERENCE TO RELATED APPLICATIONS

**[0001]** This application claims the benefit to continuation-in-part U.S. application no. 13/533,879 filed on June 26, 2012, which claims benefit to continuation-in-part U.S. application no. 13/455,046 filed on April 24, 2012, which claims benefit to U.S. patent application no. 13/433,247 filed on March 28, 2012, all of which are herein incorporated by reference.

## FIELD OF THE INVENTION

**[0002]** This invention relates to lath furring strips. In particular, this invention relates to lath furring strips with improved water resistance and for accommodating insulation layers.

## BACKGROUND OF THE INVENTION

**[0003]** The present invention is directed to overcoming problems associated with securing a lath to a sheathing (or a wall structure). In wall construction, plaster is generally applied to a flexible lath material instead of directly attaching the lath to a rigid structure, such as sheathing, because the current means of attaching a lath directly to a rigid structure can cause cracks. By applying plaster to a metal lath (which include structures such as welded wire, woven wire, and expanded metal lath), the plaster cracks less frequently than if compared to applying the plaster directly to the sheathing. The current method of fastening laths to sheathing is either with staples, nails or screws. Although a moisture barrier, such as building paper, can be placed between the lath and the sheathing, the moisture barrier must be penetrated by fasteners to secure the lath. This penetration creates holes which diminish the waterproofing features of the moisture barrier. When fasteners are driven into the sheathing, not only is the moisture barrier penetrated by the fastener, but often times the moisture barrier is torn by the lath, creating more possible water intrusion. Screw that press metal lath tear and cut the moisture barrier as they press the metal lath into the moisture barrier and sheathing. Since plaster is water absorbent, it can transmit

water to more expensive and structurally important components of the building, such as the sheathing or the framing.

**[0004]** Lath furring strips are one way to reduce the number of penetrations into the moisture barrier because the lath is attached and secured to a furring strip, and not the sheathing or framing directly. An example of a lath furring strip is disclosed in U.S. Patent No. 1,405,579 to Graham. This patent discloses placing a metal lath on a furring strip, which provides permanent spaces between the lath and the framing, which permits the ready application and attachment of continuous mesh reinforcements on a vertical stud. By using lath furring strips, fewer fasteners are needed to attach the furring strip to the sheathing, thus fewer penetrations are made into the moisture barrier. Furring strips have the added function of creating an air space between the sheathing and the lath, which serves the purpose of allowing the finishing material to key better, and creates insulation.

**[0005]** However, there are still problems with current lath furring strips. Although the use of furring strips reduces the number of holes in the moisture barrier compared to securing the lath to the moisture barrier directly, water can still seep into the sheathing and framing via the holes that were created by the furring strip fasteners. A problem with adding additional waterproofing layers to the furring strip is that any additional waterproofing on the furring strip would increase the profile height of the lath furring strip. For proper plastering of walls, the plaster thickness is commonly 7/8 of an inch, and the total height from the bottom of the furring strip cannot exceed 3/8 of an inch. However, one drawback of using a lath furring strip with a profile of less than 3/8 of an inch is that it may reduce the attachment strength on the furring strip where the lath is secured. This is due to the fact that an attachment hole, where a wire tie or clamp secures the lath to the furring strip, is situated on the mounting leg of a lath furring strip. The mounting leg is what gives most of the height to the lath furring strip. The attachment hole cannot be too large because the larger the attachment hole, the less metal there is between the outer edge of the attachment hole and the outer edge of the mounting leg. The less metal there is on this mounting leg, the more easily the lath can break off of the furring strip due to the small amount of metal holding the tie, lath, and mounting leg together. Although one might consider reducing the side of the attachment hole on the mounting leg, it takes skill insert wire ties through a lath and attachment hole, and reducing the size of the hole to leave more metal in between the attachment hole and the edge of the

mounting leg would make it much more difficult for the practitioner to secure the lath to the mounting leg.

**[0006]** Additionally, some structures require increased insulation, and foam insulation on the outside of homes and buildings seems to be the current acceptable industry solution to the problems of new energy codes calling for higher R-values (a measure of thermal resistance used in the building and construction industry). Thermal bridging can be a major problem when structures are framed with metal studs because thermal bridging allows heat to pass through an insulating material via a conductive material that penetrates it. However, when lath is attached directly to foam insulation, there may be a lack of support because of the weight of the lath on the foam. Current methods use long fasteners, such as screws. These can be over three and one half inches long and puncture directly the thick foam insulation to secure the insulation to the framing. This attachment mechanism creates a potentially dangerous shear weight on the foam due to the weight of the plaster. Additionally, by using this method, there are as numerous penetrations in the weather resistant barriers behind the foam. Those penetrations have the potential for moisture intrusion into the building. When insulation is used as part of the furring strip assemblage, the height of the furring strip itself can be greater than 3/8 of an inches, but the distance from the lath to the insulation itself should be less than 3/8 of an inch for proper plastering of the wall. Currently there are no standardized three coat plaster systems that resolve the issues of thermal bridging, safe lath attachment, and penetration holes that reduce water resistance.

**[0007]** Therefore, there is a need for lath furring strips with properties that increase waterproofing without increasing the profile of the plaster thickness beyond 7/8 of an inch, and maintain mounting leg strength at the attachment site of the lath. Additionally, there is a need to integrally combine lath furring strips with other building structures to simplify construction and increase water proofing qualities of devices meant for the use plastering of walls. Finally, there is a need for lath furring strips that can resolve simultaneously the issues of thermal bridging, safe lath attachment, and problems relating to water resistive barrier penetrations.

## SUMMARY OF THE INVENTION

**[0008]** In view of the foregoing, the present invention is directed to a lath

furring strip and assembly of a lath furring system on a wall that allows for better waterproofing while maintaining mounting leg strength near a lath attachment hole and provide an area between the lath and furring strip for an insulating layer in some embodiments.

**[0009]** It is a purpose of the present invention to provide a low-profile lath furring strip that is more water resistant than currently available lath furring strips. The furring strip can be mounted onto the sheathing, framing or studding with a water resistive backing to reduce water seepage from the plaster to the wall, while maintaining a low height profile for proper plaster coating wall construction.

**[0010]** The present invention introduces such refinements. In a preferred embodiment, the invention comprises a lath furring strip that has a flexible elastic water resistive backing, such as a rubber sheet, on the bottom of the lath furring strip, which adheres or is secured to a moisture barrier such as building paper. The furring strip further comprises a mounting leg used to attach lath to furring strip. The total height from the top of the mounting leg to the bottom of the mounting plate (including all attachments to the base of the furring strip) is 0.365 inches or less. The mounting leg is hemmed such that there is additional metal between the edge of an attachment hole for a lath and the edge of the mounting leg. The fastener that attaches the wire lath to the furring strip can be a wire clip, a C ring, a wire tie, or other means to fasten a lath to a furring strip. The lath furring strip can also be incorporated into termination points, channel screeds, drips screeds and weep screeds to increase waterproofing material between a wall and plaster.

**[0011]** The rubber sheet can be fixed to the lath furring strip and has an adhesive coating, which may have a peelable layer, to temporarily secure the mounting plate on the furring strip to a solid barrier. A mounting device, such as a nail or screw, is inserted through the lath furring strip, to secure the furring strip to the sheathing or framing, and penetrates the moisture barrier. The furring strip may have pre-cut holes for mounting, or may have no mounting holes in its prefabrication embodiment, whereby the mounting holes are created with self-tapping screws or other mounting devices. The rubber backing on the furring strip aids in waterproofing because when the nail or screw that secures the furring strip to the sheathing applies pressure to the rubber backing, the rubber backing is squeezed such that it at least partially fills in any gaps that would normally allow water to seep through the mounting hole and building paper to the other side of the lath furring strip. This

prevents water from seeping through any holes that were in the building paper and damaging more expensive structures such as sheathing, framing, or studding.

**[0012]** Incorporating a thick rubber sheet to the bottom of a lath furring strip increases waterproofing, but if a rubber sheet is too thick, such as 1/32, 1/16 or 1/8 of an inch, it would significantly raise the lath furring strip. This presents a problem because, the thicker the rubber sheet, the greater the height of the furring strip mounting leg. Preferably, the attachment hole is 5/16 of an inch for ease of a practitioner inserting an attachment device such as a wire tie. As the height of the lath furring strip increases with added layers such as rubber strips, the mounting legs must decrease to keep the overall height of the lath furring strip at or below 0.365 inches since the entire plastering thickness cannot exceed 7/8 of an inch. The lath furring strip can preferably be made from steel or other metals such as Galvanized steel or stainless steel.

**[0013]** In one embodiment of the present invention, the lath furring strip can be of different shapes, such as a shape that fits an inside corner, or a shape that fits an outside corner. The lath furring strip that fits an inside corner comprises two sides that mount against the solid barrier, such as sheathing, framing, wall, studding, or moisture barrier. Extending from each mounting plate is a mounting leg that is bent inward relative to the mounting plates of the lath furring strip. The lath is attached via attachment holes on the mounting legs. In the embodiment where the lath furring strip fits an outside corner, the furring strip has two plates that mount against the solid barrier or moisture barrier on sheathing. Extending from each mounting plate is a mounting leg that is bent outward relative to the mounting plates of the lath furring strip. The height of the furring strip from the base of the furring strip or the moisture barrier to the tip of the mounting leg, where the lath is attached, cannot exceed 0.365 inches. In the corner lath furring strip embodiments, the furring strip comprises a flexible elastic water resistant barrier, a first mounting plate for mounting said furring strip onto a solid barrier, a second mounting plate adjacent to, and substantially perpendicular to the first mounting plate, a mounting leg extending substantially perpendicular from the first mounting plate, a second mounting leg adjacent to, and substantially perpendicular to the second mounting plate, a first attachment hole for attaching lath to the furring strip to the first mounting leg, and a second attachment hole for attaching the lath to the second mounting leg. The first mounting plate is substantially parallel to the second mounting leg. The second mounting plate is

substantially parallel to said first mounting leg. The first mounting plate is substantially perpendicular to said first mounting leg. The second mounting plate is substantially perpendicular to said second mounting leg. The mounting legs can either be bent inward (for use as an inside corner lath furring strip) or outward (for use as an outside corner lath furring strip) with respect to the mounting plates of the lath furring strip.

**[0014]** In another embodiment of the present invention, the lath furring strip can have a mounting leg of different shapes. By bending or curving the mounting leg, the height of the overall lath furring strip (including all flexible elastic water resistive barriers) can still remain at or under 0.365 inches. The advantage of a bent leg is that more metal can be between the attachment hole where the lath attaches to the lath furring strip, and the lengthwise edge of the mounting leg. In one embodiment with a bent mounting leg, the mounting leg can have a hairpin loop such that the leg is hemmed. In another embodiment of a bent mounting leg, the mounting leg can be bent such that the mounting leg has an additional extension leg that protrudes perpendicularly form the mounting leg. Preferably, the mounting leg and the extended part of the mounting leg are each equal to or less than 0.365 inches, and does not increase the total profile height of the lath furring strip to greater than 0.365 inches. Preferably, the size of the attachment hole for the lath is 5/16 of an inch. When a rubber backing is added to these furring strips, it raises the height of the furring strip. Since the height of the furring strip cannot exceed 0.365 inches, the height of the mounting leg must be reduced. Reducing the height of the mounting leg by bending the mounting leg in various configurations solves the problem increasing the amount of metal between the edge of the attachment hole and the edge of the mounting leg.

**[0015]** In another embodiment of the present invention, the flexible elastic water resistive barrier fits within a recessed area around the mounting hole, or if the mounting hole is not pre-punched, in an area that will become the mounting hole. This recessed area may be a continuous recessed area that runs substantially along the length of the furring strip, or the recessed area may be localized to just around where the mounting hole is or will be. The flexible elastic water resistive barrier can be a rubber gasket that is a long strip, which runs across a continuous recessed groove on the furring strip, or the flexible elastic water resistive barrier can be a small rubber gasket that fits within a punched-out area localized to the mounting hole area. The

punched-out area can be circular or another shape where the gasket fits snugly within the recessed punched-out cavity. The gasket can have a pre-punched hole for a nail or screw to enter, or can be solid, and a hole will be made when a nail or screw pierces the gasket when it attached to the solid barrier. The advantage of a flexible elastic water resistive barrier in the recessed groove or cavity is that when these gaskets are squeezed due to the pressure caused by a nail or screw securing the lath furring to the sheathing or framing, the rubber fills in spaces in the mounting hole where water might have seeped into or out of, had there been no gasket. Preferably, the lath furring strip can have attachment holes on the mounting leg to attach the lath to the furring strip, as previously described. The mounting legs can have the same hemmed mounting legs as previously described to increase the strength of the mounting leg near the attachment holes.

**[0016]** In another embodiment of the present invention, the lath furring strips in the previously mentioned embodiments can be assembled with the lath and attached to sheathing and framing with termination points such as channel screeds or termination stops to form a lath and furring attachment system. The lath furring strip can be of the shape of any of the aspects previously mentioned aspects, and can have the flexible elastic water resistive barrier of any of the previously mentioned embodiments. In one embodiment, the lath and furring attachment system is comprised of a furring, a lath, and attachment device for securing the lath to the furring strip, a moisture barrier such as building paper, and another attachment device for securing the furring strip to a solid barrier such as sheathing or framing. The attachment device to attach the lath to the furring can be a tie (such as a wire tie, preferably 18 gauge), a clip, or C ring. A C ring may have the advantage of reducing the height profile of the assembled lath and furring system because wire ties have extensions that may protrude up through the plaster, while a C rings do not.

**[0017]** To apply plaster, an important aspect is the termination point. An effective method of achieving this termination is through a termination stop such as J-Moulding or Milcor, which is commonly used around windows or doors. J-Moulding provides a clean transition from stucco to an alternative surface. A channel screed can also be used in a lath furring system which creates a recessed reveal that offers an architectural accent while providing a control joint to help minimize cracking. A moisture barrier such as building paper can be placed in between the J-Moulding termination stop or channel screed and the sheathing. When termination points are

added, this allows water to migrate through the furring system when installed at termination points above doors and windows. Preferably, in one embodiment, the moisture barrier can be layered such it lays on top of the termination stop but behind the furring strip. The channel screed or termination stop can also have the previously mentioned embodiments of the flexible elastic water resistive barrier incorporated into it. The termination stop and channel screed can be attached to the solid barrier via attachment devices such as screws or nails. The height of the furring strip from the tip of the mounting leg to the bottom of the furring strip used in this embodiment still is a maximum of 0.365 inches. Lath is attached to the furring strip via attachment holes on the mounting leg. The lath furring strips of this embodiment can be of any of the shape, and can have the waterproofing embodiments waterproofing embodiments previously described, or other embodiment with a flexible elastic water resistant barrier and bent mounting leg on a lath furring strip.

**[0018]** In another embodiment of the invention, a lath mounting device for mounting to a wall is comprised of a mounting leg, a first mounting plate and a second mounting plate. The first mounting plate has a front side and back side. The first mounting leg is formed at a substantially right angle to the front side of the first mounting plate and has at least one hole formed in the mounting leg for attaching lath. The second mounting plate is connected to the first mounting plate in a manner to permit the second mounting plate to be substantially parallel to the back side of the first mounting plate, the second mounting plate has a length greater than the first mounting plate. The second mounting plate has a terminal end that includes an angled leg that crosses the plane of the first mounting plate. The lath mounting device provides a unitary structure that creates two layers of plates to inhibit water penetration to the wall and also provides an angled leg formed with the device to channel water away at the bottom of the wall.

[0019] In another embodiment, the terminal end of the second mounting plate that includes an angled leg that crosses the plane of the first mounting plate creates weep screed that will prevent water from wicking up into the exterior plaster walls and also will allow water that may get into the walls to migrate out. This type of furring strip allows water to drip from the plaster on the outside of a wall by a window to drip down and away from the wall from an extension leg from the drip screed which is part of the lath furring strip. The weep screed has a longitudinal backing which is a second mounting plate that lies against a wall or sheathing, which

is adjacent to the first mounting plate of the furring strip, forming a double layer of protection made from the furring strip material. A moisture barrier, such as building paper, adds another layer of protection by lying over the lath furring strip drip screed and over the mounting device, such as a screw, which secures the lath furring strip weep screed to the wall or sheathing. This moisture barrier adheres though an adhesive to the mounting plate of the lath furring strip such that water cannot seep up the furring strip to the holes creating by the mounting device, such as a screw. The maximum height from the backing of the lath furring strip weep screed mounting plate to the top of the mounting leg, which attaches the lath, is 0.365 inches, and to reduce the height of this mounting leg, embodiments, such as the ones previously described, may be employed.

**[0020]** In another embodiment, the terminal end of the second mounting plate that includes an angled leg that crosses the plane of the first mounting plate creates a drip screed that will prevent water from wicking up into the exterior plaster walls and also will allow water that may get into the walls to migrate out. This type of furring strip allows water to drip from the plaster on the outside of a wall by a window to drip down and away from the wall from an extension leg from the drip screed which is part of the lath furring strip. The drip screed has a longitudinal backing that lies against a wall or sheathing, which is adjacent to the first mounting plate of the furring strip, forming a double layer of protection made from the furring strip material. A moisture barrier, such as building paper, adds another layer of protection by lying over the lath furring strip drip screed and over the mounting device, such as a screw, which secures the lath furring strip drip screed to the wall or sheathing. This moisture barrier adheres though an adhesive to the first mounting plate of the lath furring strip such that water cannot seep up the furring strip to the holes creating by the mounting device, such as a screw. The maximum height from the backing of the lath furring strip drip screed mounting plate to the top of the mounting leg, which attaches the lath, is 0.365 inches, and to reduce the height of this mounting leg, embodiments, such as the ones previously described, may be employed.

**[0021]** In another embodiment, the terminal end of the second mounting plate that includes an angled leg that crosses the plane of the first mounting plate. The angled leg is substantially at a 90 degree angle from the second mounting plate and extends beyond the mounting leg. This angled leg has an additional bend that is substantially parallel to both the first and second mounting plates, which creates a

termination stop. The two mounting plates provide an additional layer of furring material between the lath and the wall or sheathing. A screw, nail, or other mounting device secures the lath furring strip termination stop to the wall. Preferably, a moisture barrier, such as building paper is placed on top of the first mounting plate of the furring strip closest to the lath, and covers the mounting device such that water cannot enter the a hole created by the mounting device into the wall or sheathing. The moisture barrier preferably has an adhesive that secures the moisture barrier to the top of first mounting plate nearest the mounting leg to prevent any water from the lath to get in between the moisture barrier and the hole created by the mounting device. The maximum height from the back of the second mounting plate to the top of the mounting leg, which attaches the lath, is 0.365 inches, and to reduce the height of this mounting leg, embodiments that reduce the height of the mounting leg, such as the ones previously described, may be employed. The termination stop furring strip preferably has a total profile height of 7/8 of an inch from the mounting plate against the wall to the end of the termination stop leg.

**[0022]** In another embodiment of the invention, the lath furring strip is integral with a decorative metal trim, commonly referred to as a "reveal" that is used in construction of structures that will have a plaster exterior finish. Architects may specify that at various points on a wall that a reveal should be incorporated with lath furring strip to change the aesthetics of the plaster finish. In this unique embodiment, the lath furring strip will preferably incorporate lath furring at a consistent three eights of an inch and may provide openings every three and one quarter inches on the lath mounting leg for the wire tie method of lath attachment. The lath furring strip is installed to the wall or framing by fasteners, such as self-tapping screws, that secure mounting plates to a wall or framing covered by a moisture barrier, such as waterproof building paper. This embodiment has bottom mounting plates on each side of the reveal. The bottom side of the mounting plates attach to the wall or framing and form a bottom mounting plane against the wall. On top of each bottom mounting plate is a parallel top mounting plate, connected through a bend between the top and bottom mounting plates, forming a dual layer mounting plate on each side of the reveal. The reveal can preferably have triangular shaped protrusions, extending beyond the plane formed by the attached lath. Between the two triangular shaped protrusions is a recessed region that acts as part of the decorative trim. The embodiment may further have the flexible elastic water resistive backing on the

furring strip to prevent moisture from seeping through holes created by the fastening device previously described, which can preferably be 1/32, 1/16, or 1/8 of an inch. This embodiment can also have the hemmed mounting legs to increase the amount of metal between the attachment holes on the mounting leg and the edge of the mounting leg to increase the stability of the structure between the attachment hole and the mounting leg edge. The lath furring strip has mounting legs with holes such that lath can be attached to this embodiment via a wire tie or other attachment device. The height of the lath furring strip from the bottom mounting planes of the furring strip to the top of the mounting legs is preferably 0.365 inches or less so that the lath can be at a consistent 3/8 of an inch from the wall or framing.

**[0023]** In still a further embodiment of the lath furring strip reveal, a moisture barrier can preferably be installed over the fasteners, and over the top mounting plates. This process will eliminate all of the penetrations in the moisture barrier secured by the lath. This process will eliminate the need for additional layers of moisture barriers that would be required around other types of decorative metal trim.

**[0024]** In another embodiment, the lath furring strip is a two-piece expansion joint used in construction of structures that will have a plaster finish on the exterior. Since construction codes call for plaster-finished exteriors to have expansion joints at specific intervals, this embodiment allows for the expansion and contraction of materials due to temperature changes. In this unique embodiment, each expansion joint is integral with a lath furring strip. This embodiment has two separate pieces, each piece can secure lath via an attachment device such as a wire tie, through holes on mounting legs. Each of the expansion joints can be secured to a wall or framing through via mounting devices such as screws, self-tapping screws, or nails. The two-piece expansion joint can be installed to provide a variable size to the expansion joint width depending on the width the architect would specify in the plans. In the first expansion joint, there are a is a bottom mounting plate and a top mounting plate, forming a dual layer mounting plate where the plates are substantially parallel to each other. The bottom side of the mounting plates attach to the wall or framing and form a bottom mounting plane against the wall. The dual layer mounting plates can be secured to a wall or framing by the use of a screw or nail. Extending substantially perpendicular from the top mounting plate is a mounting leg, which has holes for securing lath to the first expansion joint. The bottom mounting plate extends past the mounting leg to a distance such that the second expansion joint can overlap the first

expansion joint. As the bottom mounting plate extends past the mounting leg, it bends to form a horizontal termination leg, which is parallel to the bottom mounting plate, forming a dual layered bottom mounting plate and horizontal termination leg. Extending substantially perpendicular from the horizontal termination leg is a vertical termination leg, extending preferably seven eights of an inch. Extending substantially perpendicular from the vertical termination leg is a termination flange.

**[0025]** A second expansion joint can be placed over the first expansion joint such that the horizontal termination leg of the second expansion joint is on top of the horizontal termination leg of the first expansion joint. The second expansion joint is able to sit flush with the first expansion joint because the second horizontal termination leg is raised compared to the horizontal termination leg on the first expansion joint. This raised horizontal termination leg is achieved through a flared region on the bottom mounting plate on the second expansion joint. The bottom side of the mounting plate attaches to the wall or framing and form a bottom mounting plane against the wall. The flare extends away from the plane of the wall when the furring strip secured, creating a space for the first expansion joint to fit under the second expansion joint. This design is unique in that it provides a pre-tensioned bend in the metal to allow for a tight seal when the expansion joints are secured to a wall or framing with a lath furring strip. This greatly improves moisture intrusion protection. Parallel and on top of the bottom mounting plate on the second expansion joint is a top mounting plate formed by a bend between the top and bottom mounting plates. Extending substantially perpendicular from the top mounting plate is a mounting leg for attaching lath. The second expansion joint is secured to a wall or framing via a mounting device such as a screw, self-tapping screw, or nail. Preferably, between the wall and the two-piece expansion joint is a moisture barrier. Preferably, a water barrier will be installed over the fasteners that secure the expansion joints to the wall to eliminate all of the penetrations in the moisture barrier around the expansion joints. Preferably, the distance from the bottom mounting planes to the top of each mounting leg that secures the lath through attachment holes is 0.365 inches or less so that lath can be incorporated a consistent 3/8 of an inch from the wall or framing. This embodiment may further have the flexible elastic water resistive backing on the expansion joints, which can preferably be 1/32, 1/16, or 1/8 of an inch, to prevent moisture from seeping through holes created by the fastening device previously described. This embodiment may also have the hemmed mounting legs to increase

the amount of metal between the attachment holes on the mounting legs and the edge of the mounting leg to increase the stability of the structure between the attachment holes and the mounting leg edges.

**[0026]** In another embodiment of the invention, a lath furring strip is incorporated with a window furring strip. This embodiment is for use around windows constructed with plaster depth grounds incorporated in the window design from the manufacturer. The furring strip has a bottom mounting plate which is parallel and integral with a top mounting plate, formed by a bend between the two mounting plates. Extending substantially perpendicular is a mounting leg for securing lath to the mounting leg via a hole on the mounting leg. Preferably, the distance from the plane formed by the bottom of the bottom mounting plate and the top of the mounting leg is not greater than 0.365 inches so that lath can be secured at a uniform 3/8 of an inch from the wall or framing. This embodiment is unique in that it designed to have a pre-tensioned shape in the metal or the strip to allow the embodiment to seal tightly against the window flange and also has a water resistant lath furring strip, which prevents water from penetrating the wall or framing. Preferably, a moisture barrier is placed on top of the top mounting plate and on top of the fastening device, which eliminates any moisture barrier penetration around the window and the need for additional water barrier product, such as Biuthane or rubber to be layered into the window flashing. Extending from the bottom mounting plate is a flared region that angles away form the plane of the bottom mounting plate. Extending from this flared region is a flashing plate. The combination of the flare and the flashing plate creates a space such that the flashing plate can lay on top of the window flange. When the furring strip is secured to the wall or framing, the flashing plate of the furring strip is pressed against the window flashing, creating a more waterproof barrier between the two. Preferably, the bottom mounting plate can have a flexible elastic barrier to improve water resistance, which can preferably be 1/32, 1/16, or 1/8 of an inch, and can prevent water from seeping from the plaster into the wall or framing. Preferably, a moisture barrier may be placed on top the top mounting plate such that any hold created by the screw or other mounting device the secured the furring strip to the wall is covered. Preferably, the mounting leg can be a hemmed mounting leg such that more metal is between any attachment hole on the mounting leg and the edge of the mounting leg.

**[0027]** In another embodiment of the invention, there is provided a space on the furring strip such that an insulation layer such as foam can be placed between the lath and the furring strip. Only the furring strip, and not the insulation is penetrated to secure it to a wall. This feature decreases the number of holes that penetrates into a wall, thus improving water resistance, as well as eliminates excessive sheer weight on the insulation, since the lath is attached to the furring strip and not the insulation directly. In this embodiment, the furring strip has a bottom mounting plate having an interior side that is substantially planar and the interior side is used for placement substantially flush against the wall. The lath furring strip also has a bottom mounting plate having an exterior side that is substantially planer. The top bottom mounting plate and the top mounting plate are substantially parallel to each other and secured together in a manner that maintains a gap between them. The insulation is positioned against the exterior side of the top mounting plate. A mounting leg is secured to, and extends substantially perpendicular from the stop mounting plate and also passes though the insulation. The mounting leg has at least one attachment hole for securing the lath the furring strip. This positioning of the insulation layer between the lath and the mounting plates allows only the penetration of the furring strip and not the insulation later. This protects against water intrusion between the insulation layer is not penetrated and also protects against thermal bridging. In one embodiment, the distance from the top vertical edge of the mounting leg to the attachment hole is not greater than 0.365 inches such that when the insulation is placed between lath and the furring strip, the distance from the top of the insulation to the lath does not exceed 0.365 inches. This distance ensures proper keying of the plaster.

**[0028]** In one embodiment of a lath furring strip for use with an insulation layer, the lath furring strip is designed to be placed over a window flange to better protect against water intrusion from around window. There is provided a flared extension extending angularly from the bottom mounting plate to accommodate the thickness of the window flange. From this flared extension is provided a flashing plate that is substantially planar and is placed substantially flush against a window flange. The flashing plate extends from the flare extension. This design allows for the furring strip to seal tightly against a window flange providing superior moisture protection.

**[0029]** In another embodiment of a lath furring strip for use with an insulation layer, the lath furring strip is integrated with a drip screed. The drip screed has a drip screed leg extending obtusely and contiguous with the lath furring strip bottom mounting plate. In this embodiment, any water from the plaster would drip down and drip away from the wall since the drip screed leg protrudes away from the wall.

**[0030]** In another embodiment of a lath furring strip for use with an insulation layer, the lath furring strip is integrated with a weep screed leg. The weep screed has a first weep screed leg extending away from the bottom mounting plate at an obtuse angle. There is provided a second weep screed leg which is contiguous with the first weep screed leg, which extends acutely from the first weep screed leg. The weep screed forms an open triangular-like shape, with the open part facing toward the wall when the furring strip is installed substantially flush against the wall. There may be provided an extension plate extending angularly from the second weep screed leg for placement of the extension plate substantially flush against the wall. This embodiment prevents water from wicking up into the exterior plaster wall, and also allows water that may get into the walls to migrate out, and has the additional features of allowing enough space to place an insulation layer between the lath and the to mounting plate of the furring strip.

**[0031]** In another embodiment of a lath furring strip for use with an insulation layer, the lath furring strip is integrated with a termination stop. The termination stop has a termination stop leg which extends substantially perpendicular to the bottom mounting plate, and substantially parallel to the mounting leg. The termination stop leg has a greater length than the mounting leg. There may be provided a termination stop leg extension which is substantially perpendicular to the termination stop leg. This provides an effective method of achieving stop points commonly used around windows or doors.

**[0032]** In another embodiment, the lath furring strip for use with an insulation layer can be designed for use around an outside corner of a wall. There is provided a first mounting plate having an interior side that is substantially planar, for placement substantially flush against the wall and an exterior side for placement of the insulation layer. There is also a second mounting plate having an interior side that is substantially planar, which has an interior side for placement substantially flush against the wall and a second exterior side for placement of the insulation layer. The second mounting plate is substantially perpendicular to the first mounting plate. This

lath furring strip also has a first mounting leg extending angularly from the first mounting plate which has a first attachment hole for attaching lath. There is provided a second mounting leg extending angularly from the second mounting plate, which has a second attachment hole for attaching lath. The first and second mounting leg and second mounting leg are secured to each other. The insulation layer is positioned against the first and second exterior sides of the first and second mounting plates. There may be provided a top edge connecting the first and second mounting legs and the distance between the first and second attachment holes to the top edge is not greater than 0.365 inches. The first mounting leg may be obtusely angled from the first mounting plate and the second mounting leg may be angled obtusely from the second mounting plate. This arrangement for superior insulation and moisture protection when the insulation layer is placed between the mounting plates the lath because the only penetration into a wall is a screw or other attachment device that penetrates the furring strip and not the insulation layer itself.

**[0033]** In another embodiment of a lath furring strip for use with an insulation layer, a flexible elastic water resistive barrier fits within a recessed area on a mounting plate. There is provided a mounting plate having an interior side that is substantially planer, and the interior side has a recessed groove for placement of a flexible elastic barrier. The mounting plate also has an exterior side. A mounting leg is secured to and extends substantially perpendicular form the mounting plate. An insulation layer is positioned against the exterior side of the mounting plate and the mounting leg passes through the insulation. The recessed groove may run substantially across the length fo the moutning plate. The mounting leg may have a top vertical edge and the distance between the attachment hole and the top vertical edge is not greater than 0.365 inches. The advantage of a flexible elastic water resistive barrier in the recessed groove is that when gaskets (i.e. the flexible elastic water resistive barrier) are squeezed due to the pressure caused by a nail or screw securing a furring strip to the wall, the elasstic fills in spaces in the mounting hole where water might have seeped into or out of, had there been no gasket.

## BRIEF DESCRIPTION OF THE DRAWINGS

**[0034]** The above and various other objects and advantages of the invention will be described and understood from the following description of the preferred

embodiments of the invention, the same being illustrated in the accompanying drawing.

**[0034]** FIG. **1a** is a side elevation view of a lath furring strip with a rubber backing, and a single mounting leg.

**[0035]** FIG. **1b** is a perspective view of a lath furring strip having a rubber backing.

**[0036]** FIG. **2a** is a side elevation view an inside corner lath furring strip having a rubber backing.

**[0037]** FIG. **2b** is a perspective view of an outside corner lath furring strip.

**[0038]** FIG. **3a** is a side elevation view of outside corner lath furring strip.

**[0039]** FIG. **3b** is a perspective view of an outside corner lath furring strip.

**[0040]** FIG. **4a** is a side elevation view of a lath furring strip having a hemmed mounting leg.

**[0041]** FIG. **4b** is a perspective view of a lath furring strip having a hemmed mounting leg.

**[0042]** FIG. **4c** is a side elevation view of a lath furring strip having a bent mounting leg.

**[0043]** FIG. **4d** is a perspective view of a lath furring strip having a bent mounting leg.

**[0044]** FIG. **5a** is a side elevation view of a lath furring strip having a continuous recess for a rubber gasket.

**[0045]** FIG. **5b** is a perspective view of a lath furring strip having a continuous recess for a rubber gasket.

**[0046]** FIG. **6a** is a sectional view of a lath furring strip having punched holes with rubber gasket inserts.

**[0047]** FIG. **6b** is a side elevation view of a lath furring strip having punched holes with rubber gasket inserts.

**[0048]** FIG. **6c** is a perspective view of a lath furring strip having punched holes with rubber gasket inserts.

**[0049]** FIG. **7** is a side elevation view of an assembled lath and lath furring strip mounted to a sheathing and framing.

**[0050]** FIG. **8** is a side elevation view of an assembled lath and lath furring strip mounted to a sheathing and framing with overlapping waterproof paper.

**[0051]** FIG. **9a** is a side elevation view of a furring strip integrated with a weep screed.

**[0052]** FIG. **9b** is a side elevation view of a furring strip integrated with a weep screed and with an assembled lath and mounting screw.

**[0053]** FIG. **10a** is a side elevation view furring strip integrated with a termination stop.

**[0054]** FIG. **10b** is a side elevation view of a furring strip integrated with a termination stop and assembled lath and mounting screw.

**[0055]** FIG. **11a** is a side elevation view of a furring strip integrated with a drip screed.

**[0056]** FIG. **11b** is a side elevation view of a furring strip integrated with a drip screed and assembled lath and mounting screw.

**[0057]** FIG. **12a** is a side elevation view of a reveal furring strip.

**[0058]** FIG. **12b** is a side elevation view of a reveal furring strip assembled with a lath and moisture barrier.

**[0059]** FIG. **13a** is a side elevation view of a two-piece expansion joint furring strip.

**[0060]** FIG. **13b** is a side elevation view of a two-piece expansion joint furring strip assembled with a lath and moisture barrier.

**[0061]** FIG. **14a** is a side elevation view of a window furring strip.

**[0062]** FIG. **14b** is a side elevation view of a window furring strip assembled with a lath and moisture barrier.

**[0063]** FIG. **15a** is a side elevation view of a furring strip integrated with a weep screed for foam installation.

**[0064]** FIG. **15b** is a side elevation view of a furring strip integrated with a weep screed and with an assembled lath and mounting screw for foam insulation.

**[0065]** FIG. **16a** is a side elevation view of a furring strip integrated with a drip screed for foam insulation.

**[0066]** FIG. **16b** is a side elevation view of a furring strip integrated with a drip screed and assembled lath and mounting screw for foam insulation.

**[0067]** FIG. **17a** is a side elevation view furring strip integrated with a termination stop for foam insulation.

**[0068]** FIG. **17b** is a side elevation view of a furring strip integrated with a termination stop and assembled lath and mounting screw for foam insulation.

**[0069]** FIG. **18a** is a side elevation view of a lath furring strip having a continuous recess for a rubber gasket for foam insulation.

**[0070]** FIG. **18b** is a perspective view of a lath furring strip having a continuous recess for a rubber gasket for foam insulation.

**[0071]** FIG. **18c** is a side elevation view of a lath furring strip having a continuous recess for a rubber gasket assembled with a lath and mounting screw for foam insulation.

**[0072]** FIG. **19a** is a side elevation view of an outside corner lath furring strip.

**[0073]** FIG. **19b** is a side elevation view of an outside corner lath furring strip assembled with a lath and mounting screw for foam insulation.

**[0074]** FIG. **20a** is a side elevation view of a window furring strip for foam insulation.

**[0075]** FIG. **20b** is a side elevation view of a window furring strip assembled with a lath and moisture barrier for foam insulation.

## DETAILED DESCRIPTION OF THE INVENTION

**[0076]** The following description is of the best-contemplated mode of carrying out the invention. This description is made for the purpose of illustrating the general principles of the invention and should not be taken in a limiting sense. The scope of the invention is best determined by reference to the appended claims. Preferable embodiments of the present invention are described with reference to the FIGS. **1-20**. FIG. **1**, FIG. **5**, and FIG. **6** show various embodiments of increasing the waterproofing characteristics of the lath furring strip. FIG. **2**, FIG. **3**, and FIG. **4** show various embodiments of the shape of the lath furring strip without any waterproofing elements, but can incorporate the waterproofing elements of the embodiments in any other figure. FIG. **7** and FIG. **8** show various embodiments of how the lath furring strip and lath are assembled, and may incorporate any of the waterproofing or lath shapes in any of other figures. FIG. **9**, FIG. **10**, FIG. **11**, FIG. **12**, FIG. **13**, and FIG. **14** show various embodiments of integrating a lath furring strip with termination stops, screeds, such as weep screed and drip screed, window furring, reveal trims, and two-piece expansion joints. FIG. **15**, FIG. **16**, FIG. **17**, FIG. **18**, FIG. **19**, and FIG. **20**

show various embodiments of integrating a lath furring strip in weep screeds, window heads, window stops, and O/S corners when insulation, such as foam insulation needs to be placed between the sheathing and the lath. These embodiments can be combined with other embodiments described below.

**[0077]** FIG. **1a** and FIG. **1b** depict a lath furring strip **10** which has a mounting plate **20** and a mounting leg **2**, which is substantially perpendicular to the mounting plate **20**. On the bottom **22** of the mounting plate **20** is a flexible elastic water resistive barrier **6** such as a rubber sheet, fixed to the bottom side **22** of the furring strip **10**. The height of the lath furring strip **10** from the bottom of the flexible elastic resistive barrier **6** to the top of the mounting leg **12** does not exceed 0.365 inches. The mounting side **20** has a top side **16** and a bottom side **22**. A mounting hole **8** traverses the mounting plate **20** and goes through the top side **16** to the bottom side **22**. A nail or screw can be inserted into the mounting hole **8** to secure the lath furring strip **10** to the solid barrier, such as sheathing, framing, studding, or wall, and may attach to a solid barrier through an intermediary moisture barrier, such as a building paper. The mounting hole can also be created by the use of self tapping screws. The mounting leg **2**, where the lath is attached, may attach attaches via a clip, wire tie, C ring, or other means of securing a lath to the attachment hole **14**. The attachment hole may span both the mounting plate **20** and mounting leg **2**. The mounting leg **2** is integral with lath furring strip **10** and created by a bend **4** that forms a substantially perpendicular mounting leg **2** relative to the mounting plate **20**. The flexible elastic water resistive barrier **6** may have an adhesive coating on the bottom of the flexible elastic water resistive barrier **6** such that the furring strip **10** can adhere to a solid barrier or moisture barrier.

**[0078]** FIG. **2a** and FIG. **2b** show two views of an example of a furring strip **30** used for an inside corner of a wall. A first side **32** of the furring strip **30** has a mounting hole **36**. A screw or nail can be used to secure the first mounting plate **32** to a solid barrier such as a wall, sheathing, or framing, which has corner, and may attach to the solid barrier through an intermediary moisture barrier, such as building paper. A second mounting plate **34** of the furring strip **30** also has a second mounting hole **38** and is secured to a solid barrier. The corner **58** of the furring strip **30** nestles into the corner of the structure which the furring strip **30** attaches to. The furring strip **30** has a first mounting leg **40** and a second mounting leg **54**, which are each equal or less than 0.365 inches from the top of the mounting leg **46** to the bottom of the first

mounting plate **32** or second mounting plate **34** of furring strip **30**. An attachment hole **60** on the first mounting plate **32** and an attachment hole **52** on the second mounting plate are used to attach a lath to the furring strip via a wire tie, clip or C ring. The attachment hole **60** may span both the first mounting plate **32** and the first mounting leg **40** through the corner **44** of the first mounting plate **32** and first mounting leg **40**. Similarly, the attachment hole **52** on the second mounting plate **34** may span the corner **56** of the second mounting plate **34** to the second mounting leg **54**. In a cross sectional view of the furring strip **30**, the furring strip **30** forms an open square-like structure as shown in Fig. **2a**, where the first mounting plate **32** and the second mounting plate **34** are two sides of the open square, with the corner **58** between these two mounting plates **32**, **34**. The first mounting side **32** and the first mounting leg **40** are at substantially a right angle to each other, and meet via a corner **42**. The second mounting plate **34** and second mounting leg **54** are substantially at a right angle to each other and meet via a corner **56**. A lath can take the cornering shape of the furring strip **30** by attaching a lath that is perpendicular to the mounting legs **40**, **54**, and parallel to the two mounting plates **32**, **34** via attachment devices that connect the lath to the attachment holes **52**, **60**. The furring strip **30** can have a flexible elastic waterproof barrier as shown in FIG. **1**, FIG. **5**, FIG. **6**, or other type of flexible elastic water resistive barrier.

**[0079]** FIG. **3a** and FIG. **3b** show two views of an example of a furring strip **70** meant for use on an outside corner of a wall. A first mounting plate **76** of the furring strip **70** has a mounting hole **80** where a screw or nail can be inserted and secures the furring strip **70** to a solid barrier such as a sheathing, framing, or wall. A mounting hole **82** on a second mounting plate **74** secures the furring strip **70** to a solid barrier on an outside corner. The corner **88** of the furring strip **70** nestles in the corner of a wall for attachment. Extending from the first mounting plate **74** and the second mounting plate **76** are a first mounting leg **78** and a second mounting leg **72**, respectively. The first mounting leg **78** is substantially perpendicular to the first mounting plate **76** and meet at a corner **98**. The second mounting leg **72** is substantially perpendicular to the second mounting plate **74** and meet at a corner **96**. The height of furring strip **70** from the tip **92** of the first mounting leg **78** to the base of the first mounting plate **76** is equal to or less than 0.365 inches. Likewise, height from the the tip **94** of the second mounting leg **72** to the base of the second mounting plate **74** is also equal to or less than 0.365 inches. An attachment hole **86** secures a

lath to the furring strip **70**, and this attachment hole **86** may span both the first mounting side **76** and first mounting leg **78**. Another attachment hole **84** secures a lath the furring strip **70**, and this attachment hole **84** may span both the second mounting plate **74** and second mounting leg **72**. The first and second mounting plates **74**, **76** can have the flexible elastic waterproof barriers as depicted in FIG. **1**, FIG. **5**, FIG. **6**, or other embodiments of a flexible elastic waterproof barrier.

**[0080]** FIG. **4a** and FIG. **4b** are two views of another embodiment of a furring strip **100**. In this embodiment, the mounting leg **122** is hemmed, such that it is bent on an edge **102**. The height from the bottom **114** of the furring strip **100** to the top of the bent edge **102** is no greater than 0.365 inches. This bend forms a hairpin loop **104** with an opening **106**, which increases the amount of total furring strip material from the attachment hole **124** to the edge of the mounting leg **122**. The furring strip **100** has a mounting hole **188** within the mounting plate **120**. A screw, nail, or other attachment device secures the furring strip **100** to a solid barrier, such as sheathing, framing, or wall. On top of this solid barrier there may be a moisture barrier such as building paper. The mounting plate **120** can have a flexible elastic water resistive barrier **116** on the bottom **114** of the mounting plate **120**, or can have flexible elastic water resistive barriers of other embodiments as depicted in FIG. **1**, FIG. **5**, FIG. **6**, or other embodiments. The feature of a hemmed mounting leg **122** in FIG. **4b** increases the strength of the mounting leg **122** because of additional furring strip material between the attachment hole **124** and the edge of the mounting leg **122**. The furring strip **100** has an attachment hole **124** for attaching a lath to the furring strip **100**.

**[0081]** FIG. **4c** and FIG. **4d** depict another embodiment of a furring strip **110** that increases the total amount of furring strip **110** material (such as steel or stainless steel) that is on the mounting leg **142**. The mounting leg **142** can be bent perpendicularly to make an edge **140**, such that the extension leg **138** of the mounting leg **142** is no longer than 0.365 inches, and the mounting leg **142** with the attachment hole **126** is also no longer than 0.365 inches. The attachment hole **126** may span the mounting plate **144** through a corner **134** that is formed between the mounting leg **142** and the mounting plate **144**. The total height from bottom **130** of the mounting plate **144** to the top of the extension leg **138** is no greater than 0.365 inches. The furring strip **110** may incorporate various embodiments of a flexible elastic water resistive barrier such as the embodiments depicted in FIG. **1**, FIG. **5**, FIG, **6** or other embodiment of a flexible elastic waterproof barrier on a furring strip.

**[0082]** FIG. **5a** and FIG. **5b** illustrate two views of a furring strip **150** with a recessed groove **154** for a rubber gasket **152**. The recessed groove **154** allows flexible elastic water resistive barrier, such as a rubber gasket **152** to line a mounting hole **168** without increasing the overall height of the furring strip **150**, such that the distance from the bottom side **172** of the mounting plate **164** to the tip **174** of the mounting leg **170** does not exceed 0.365 inches. The recessed groove **154** can be within the bottom side **172** of mounting plate **164** of the furring strip **150**. The top surface **178** of the mounting plate **164**, which has a mounting hole **168** can be raised out to provide a thickness of the recessed area of the furring strip **150** material equal to the thickness of the furring strip **150** material through the rest of the mounting plate **164**. The recessed groove **154** can be implemented in other designs of furring strips, such as the ones illustrated in FIG. **2**, FIG. **3**, or FIG. **4**. The recessed groove **154** can have a variety of shapes that enable it to fit a rubber gasket **152**. A first side **156** of the recessed groove **154** can be angled towards a mounting hole **168**, forming an obtuse angle from the bottom side **172** of the furring strip **150** towards the mounting hole **168**, and a second side **158** of the recessed groove **154**, which is closer to the mounting leg **170** also forms an obtuse angle from the bottom side **172** of the mounting plate **164** towards the mounting hole **168**. The top surface of the recessed groove **154** can be flat with no angles such that it fits a rubber gasket **152** with a flat top side. The recessed groove **154** can also be of other shapes that fit differently shaped gaskets.

**[0083]** In another embodiment, the recessed groove can be angled from the bottom side **172** of the mounting plate **164** such that a first side of the flare **160** closest to the mounting leg **170**, and the recessed groove closest to the non-raised portion **162** of the furring strip **150**, both recess in a perpendicular fashion in relation to the bottom side **172** of the mounting plate **164** before being angled in toward each other. A nail or screw attaches the furring strip **150** to a solid barrier such as a sheathing, wall, or framing by securing the furring strip **150** through via the mounting device through the mounting hole **168**. The furring strip **150** also has an attachment hole **173** to secure the lath to the furring strip **150**.

**[0084]** FIG. **6a**, FIG. **6b**, and FIG. **6c** illustrate three views of a furring strip **180** with punched holes **196** for a rubber gasket **198**. This feature enables the furring strip **180** to have an flexible elastic water resistive barrier nestled within the furring

strip **180**, but does not add any height to the furring strip **180**, such that the height from the tip **182** of the mounting leg **184** to the bottom of the bottom of the mounting plate **188** does not exceed 0.365 inches. The furring strip **180** is secured to a solid barrier such as sheathing, framing, or a wall via a screw or nail that goes through the mounting hole **196** and rubber gasket **198**. The rubber gasket **198** can have a hole **200** within it, such that the nail or screw can pass through the mounting side **190** more easily. The top of the mounting plate **192** can have a raised region **194** on top of the recessed cavity **202** which contains the mounting hole **196**, such that the thickness of mounting plate **190** around the recessed cavity **202** is equal to the thickness of mounting plate **190** in the raised regions. The mounting leg **184** is substantially perpendicular to the mounting plate **190** and meet at a corner **186**. The rubber gasket **198** can have circular shape, or other shape that can fit sit inside the recessed cavity **202**. The furring strip **180** has an attachment hole **203** to secure a lath to the furring may be on the mounting leg **184**. The recessed cavity **202** embodiments can be utilized in other furring shapes, such as the ones depicted in FIG. **1**, FIG. **2**, FIG. **3**, and FIG. **4**.

**[0085]** FIG. **7** shows an illustration of a lath furring strip system **210** attached to a wall, which is comprised of sheathing **220** and framing **222**. The lath furring strip **214** is secured to the sheathing **220** and framing **222** via a screw **218**. In this embodiment, there is a channel screed **230** also secured to the sheathing **220** and framing **222**, via two screws **224**. A metal lath **212** is attached to the mounting leg **228** via a wire tie **226**. Between the furring strip **214** and the sheathing **220** is a moisture barrier **216**, such as building paper. This barrier runs the entire length under the furring strip **214** and channel screed **230**. The screws **218**, **224** pierce the moisture barrier **216**. The furring strip **214** can have the flexible elastic water resistive barrier embodiments of FIG. **1**, FIG. 5, and FIG. **6** to protect water from seeping from the pierced moisture barrier **216** to the sheathing **220** and framing **222**. By securing the furring strip **214** with the screw **218** or other mounting device, the flexible elastic water resistive barrier squeezes into a shape where it fills in gaps in a mounting and prevents water from seeping to the sheathing **220** or framing **222**. In this embodiment of a lath and lath furring strip system, **210** a channel screed **230** creates a recessed reveal which offers an architectural accent while providing a control joint to help minimize cracking.

**[0086]** FIG. **8** is an illustration of a lath and lath furring strip system **240** where a furring strip **256** is secured to sheathing **246** and framing **248** via a mounting screw **260**. This embodiment also has a termination stop called a J-channel stop **242**, such as Milcor, which provides for better water drainage. A lath **258** is attached to a mounting leg **254** of the furring strip **256**. The termination stop **242** is attached to the sheathing **246** and framing **248** via a mounting screw **244**. A moisture barrier **252** sits on the top side **242** of a termination stop **242**. The moisture barrier **252** is also situated between the lath furring strip **256** and the sheathing **246** and is penetrated by the screw **260** of the lath furring strip **256**. To prevent moisture from passing from the lath furring strip system **240** into the sheathing **246** or framing **248**, the bottom of the lath furring strip **256** can have a flexible elastic water resistive barrier, such as the ones described in the embodiments of FIG. **1**, FIG. **5**, and FIG. **6**.

**[0087]** FIG. **9a** and FIG. **9b** depict embodiments of an integrated lath furring strip weep screed **270**, and a lath furring strip weep screed **270** with an assembled lath and mounting device **290**. The lath furring strip weep screed **270** has a mounting leg **272** that has a profile height from the bottom of a second mounting plate **278** to the top of the mounting leg **272** of 0.365 inches or less. The mounting leg **272** has an attachment hole for attaching a lath **292** to the mounting leg **272** via an attachment device such as a wire tie **298**. The mounting leg **272** is substantially at a right angle to a first mounting plate **274**. A hairpin loop **276** bends the furring strip material substantially 180 degrees such that there is an extra layer of furring strip **270** material creating a second mounting plate **278** behind the first mounting plate **274**. A screw **288** or other mounting device secures the lath furring strip weep screed **270** into a wall or sheathing through both the first mounting plate **274** and second mounting plate **278**. A moisture barrier **294**, such as building paper, is placed between the lath and the furring strip mounting side **274**, which covers a hole created by the screw **288** or other mounting device, which secures the lath furring strip weep screed **270** to the wall. A moisture barrier **294** adheres to the top side of the first mounting plate **274**, which covers the screw **288** and top side of the first mounting plate **274** through an adhesive layer **296** which prevents water from seeping in between the lath **292** and the top side of the first mounting plate **274**. The second mounting plate **278** extends past the mounting leg **272** and angles toward the lath **292** and forms a first weep leg **280**. The first weep leg **280** is bent back at a point **284** to form a second weep screed leg

**282** which also is angled to form a side **286** that sits flush with the wall. This allows water to drip from the plaster on the lath **292** away from the wall.

**[0088]** FIG. **10a** and FIG. **10b** depict embodiments of an integrated lath furring strip termination stop **300**, and a lath furring strip termination stop assembly **330** with a mounting device **316** and lath **322**. The lath furring strip termination stop **300** has a mounting leg **306** that has a profile height from the bottom of the second mounting plate **308** to the top of the mounting leg **306** of 0.365 inches or less. The mounting leg **306** has an attachment hole for attaching a lath **322** to the mounting leg **306** via an attachment device such as a wire tie **324**. The mounting leg **306** is substantially at a right angle to a first mounting plate **304**. A hairpin loop **302** bends the furring strip material substantially 180 degrees such that there is an extra layer of furring strip material which make the first mounting plate **304** and the second mounting plate **308** parallel to each other. A screw **316** or other mounting device secures the lath furring strip termination stop **300** into a wall or sheathing through both the furring strip mounting side **304** and termination stop mounting side **308**. A moisture barrier **320** adheres to the top side of the first mounting plate **304**, which covers the screw **288** and top side of the first mounting plate **304** through an adhesive layer **318** which prevents water from seeping in between the lath **322** and the top side of the first mounting plate **304**. The second mounting plate **278** extends past the mounting leg **272** and turns at substantially a right angle angles toward the lath **322** and forms a termination stop leg **310**. The termination stop leg **310** is bent at substantially a 90 degree angle to become parallel to the second mounting plate **308**. This allows water to drip from the plaster on the lath **292** away from the wall. This termination stop structure is used where the plastering of a wall ends and other material begins, and prevents water from seeping into a wall.

**[0089]** FIG. **11a** and FIG. **11b** depict embodiments of an integrated lath furring strip with a drip screed **340**, and a lath furring strip drip screed assembly **360** with a mounting device **362** and lath **358**. The lath furring strip drip screed **340** has a mounting leg **350** that has a profile height from the bottom of the second mounting plate **344** to the top of the mounting leg **350** of 0.365 inches or less. The mounting leg **350** has an attachment hole for attaching a lath **358** to the mounting leg **350** via an attachment device such as a wire tie **353**. The mounting leg **350** is substantially at a right angle to first mounting plate **352**. A hairpin loop **342** bends the furring strip material substantially 180 degrees such that there is an extra layer of furring strip

material creating the second mounting plate **344** behind the first mounting plate **352**. A screw **362** or other mounting device secures the lath furring strip drip screed **340** into a wall or sheathing through both the first mounting plate **352** and second mounting plate **344**. A moisture barrier **356**, such as building paper, is placed between the lath **358** and the first mounting plate **352**, which covers a hole created by the screw **362** or other mounting device, which secures the lath furring strip **340** to the wall. The moisture barrier **356** adheres to the first mounting plate **352** by having an adhesive layer **354**. The second mounting plate **344** extends past the mounting leg **350** and angles toward the lath **358** and away from a wall, such that any water would fall down the drip screed leg **346** or off of an extension of that leg **348** away from the wall or window.

**[0090]** FIG. **12a** and FIG. **12b** depict an embodiment of a lath furring strip with a reveal **370** and an assembled lath furring strip with a reveal **390**. The assembled lath furring strip with a reveal includes an attached lath **386** and a moisture barrier **384**. The embodiment of the lath furring strip with a reveal **370** and assembled lath furring strip with a reveal **390** is integrated with decorative metal trim. It is this decorative metal trim which is commonly referred to as a reveal **383**. The lath furring strip with a reveal **370**, **390**, has two inner side protrusions **380, 318** and two outer protrusions **378, 379** which form two triangular-like shapes that form the reveal **383** and two furring strip sections **385**, **387** on each side of the reveal **383**. The outer protrusions **378, 379** extend and form an obtuse angle with bottom mounting plates **376**, **377** (forming bottom mounting planes at the base of the bottom mounting plates **376, 377**) that may be placed against a wall framing that has a moisture barrier **384**. The bottom mounting plates **376, 377** are bent into second mounting plates **374, 375** on top of the bottom mounting plates **376, 377**. Extending perpendicular from the top mounting plates **374, 375** are mounting legs **372, 373** which has attachment holes for securing lath **386** by way of a wire tie **388** or other mechanism that can attach lath **386** to a furring strip **370**, **390**. The height of the furring strip with a reveal **370**, **390** from the base of the furring strip **370**, **390** to the top of the mounting leg **388** is 0.365 inches or less so that the lath **386** can be consistently laid at 3/8 of an inch away from the framing. The furring strip with a reveal **370**, **390** is secured to the framing by fasteners that penetrate both the first mounting plate **376**, second mounting plate **374**, and moisture barrier **384**. The bottom mounting plates **376, 377** are pressed against the moisture barrier **384** when secured to the framing via the screw or other mounting

device. This pressure prevents moisture from seeping in from the plaster to through holes in the moisture **384**. The lath furring strip with a reveal **370**, **390** can have the added strength of a hemmed mounting leg **122** as shown in FIG. **4b**. Additionally, other embodiments featuring a furring strip with a reveal **370**, **390** can have the flexible water resistive barrier **6** as shown in FIG. **1a**, or **166** in FIG. **4b**, to further prevent seepage of water from plaster through holes created through the moisture barrier **384** by nails or screws that penetrate the moistures barrier **384** that hold the lath furring strip with a reveal **370**, **390** in place.

**[0091]** FIG. **13a** and FIG. **13b** depict a two-piece expansion joint **400** and an assembled two-piece expansion joint **440** with lath **416**, wire ties **432**, screws **418**, and moisture barrier **420**. Construction codes call for plaster-finished exteriors to have expansion joints at specific intervals allowing for the expansion and contraction of materials that occur during temperature changes throughout the day. In a first piece **411**, there is a bottom mounting plate **428** and a top mounting plate **430**. The top mounting plate **430** has a mounting leg **434** for attaching lath **416** to the mounting leg **434** with a wire tie **432** or other means for attachment. The top mounting plate **430** is substantially parallel to the bottom mounting plate **428**. The bottom mounting plate **428**, which at its base forms a bottom mounting plane, extends past the mounting leg **434**. The bottom mounting plate **428** is bent to then form an integral first overlapping plate **426** on top of the first mounting plate **428**. Extending perpendicular from the first overlapping plate **426** is a first joint-termination leg **424**, which extends beyond the plane of the top of the mounting leg **434** and beyond the lath **416** when assembled. Extending perpendicular to the first joint-termination leg **424** is a first overhanging leg **422**. The first expansion joint **411** can be placed at various distances from a second expansion joint **413** and the second expansion joint **413** is capable of sliding over the first expansion joint **411**. The second expansion joint **413** has a bottom mounting plate **410**, which at its base forms a bottom mounting plane. One on end of the bottom mounting plate **410** is a flashing **408** that rises and then forms the second expansion joint overlapping plate **406**. The flashing **408** provides a pre-tensioned bend in the metal to allow for a tighter seal against the first expansion joint **411** when a screw **418** secures the second expansion joint **413** to a wall or framing through a moisture barrier **420**. The second expansion joint **413** has a second overlapping plate **406**, which is substantially parallel to the first expansion joint overlapping plate **426,** such that the second expansion joint overlapping plate

**406** lays on top of the first expansion joint overlapping plate **426** when assembled together to form the two-piece expansion joint **400, 440**. Extending substantially perpendicular from the second expansion joint overlapping plate **406** is a second expansion joint termination leg **404**. Extending substantially perpendicular from the second expansion joint termination leg **404** is a second overhanging leg **402**. The first overhanging leg **422** and second overhanging leg **402** are substantially in the same plane as each other. The space between the first termination leg **424** and second termination leg **404** can expand or contract when the temperature changes. The second overlapping plate **406** can slide back and forth over the first overlapping plate **426** when the temperature changes. The second expansion joint **410** has an top mounting plate **412** on of its bottom mounting plate **12**. Extending perpendicular from the top mounting plate **412** is a second mounting leg **432**, where lath **416** is attached through a hole on the mounting leg **414**. Both the first expansion joint **411** and second expansion joint **413** secured to a wall or framing by penetrating the top and bottom mounting plates **430**, **428, 412, 413** of each expansion joint **411**, **410** to a wall of framing via a screw **418** or other mounting device. The first expansion joint **411** and the second expansion joint **413** can have the added strength of a hemmed mounting leg **122** as shown in FIG. **4b**. Additionally, other embodiments featuring a two piece expansion joint **400, 440** can have the flexible water resistive barrier **6** as shown in FIG. **1a**, or **166** in FIG. **4b**, to further prevent seepage of water from plaster through holes created through the moisture barrier **420** by the screws **418** that penetrate the moisture barrier **420** that hold two-piece expansion joint **400**, **440** to the wall or framing. The height of the first expansion joint **411** and the second expansion joint **413** from the base of each expansion joint **411**, **413** to the top of each mounting leg **434, 414** is 0.365 inches or less so that the lath **416** can be consistently laid at 3/8 of an inch away from the framing.

**[0092]** FIG. **14a** and FIG. **14b** depict a window lath furring strip **450** and an assembled window lath furring strip **470** assembled with a lath **468**, wire tie **466**, moisture barrier **464**, over a window flange **463** of a window **462**. The lath furring strip **450, 470** has a bottom mounting plate **456** and an integral top mounting plate **458**. A bottom mounting plane is formed at the base of the bottom mounting plate **456**. Extending from the top mounting plate **458** is a mounting leg **460** where lath **468** attaches to the mounting leg **460** via a wire tie **466**. Extending from the bottom mounting plate **456**, beyond the mounting leg **460** is a flare **454** designed to have a

pre-tensioned shape in the metal to allow the furring strip **450** to seal tightly against the window flange **463** when a screw **472** penetrates through the top mounting plate **458** and the bottom mounting plate **456** into a wall or framing. This creates a tight seal between the lath furring strip **450** and the window flange **463**, which prevents moisture that may gather around the window **462** from seeping from the plaster on the lath **668** into the wall. A moisture barrier **464** is installed on top of the head of the screw **474**, on the top mounting plate **458** to eliminate any moisture barrier penetration from plaster to the wall created by the penetration of the screw **472** into the top mounting plate **458**, and bottom mounting plate **456** into the wall. The furring strip **450, 470** can have the added strength of a hemmed mounting leg **122** as shown in FIG. **4b**. Additionally, other embodiments featuring a window furring strip **400** can have the flexible water resistive barrier **6** as shown in FIG. **1a**, or **166** in FIG. **4b**, to further prevent seepage of water from plaster through holes created by a screw **472**. The height of the window furring strip **450**, **470** from the bottom mounting plate **456** to the plane formed by the top of the mounting leg **460** is 0.365 inches or less so that the lath **468** can be consistently laid at 3/8 of an inch away from the framing.

**[0093]** FIG. **15a** and FIG. **15b** depict embodiments of an integrated lath furring strip weep screed **480**, and a lath furring strip weep screed **480** with an assembled lath and mounting device **500** and foam insulation **502**. The lath furring strip weep screed **480** has a mounting leg **488**. The mounting leg **272** has an attachment hole (see FIG. **18** for location of an attachment hole **636** on a mounting leg **638**). The attachment hole is used for attaching a lath **508** to the mounting leg **488** via an attachment device such as a wire tie **504**. The mounting leg **488** is substantially perpendicular to a top mounting plate **486** having an exterior side **487**. A loop **484** bends the furring strip material substantially 180 degrees such that there is a bottom mounting plate **482** having an interior side **483** that sites flush against the wall **512** and is parallel to the top mounting plate **486** leaving a gap **489** between the top mounting plate **486** and bottom mounting plate **482**. A screw **510** or other mounting device secures the lath furring strip weep screed **480** into a wall or sheathing **512** through both the bottom mounting plate **482** and the top mounting plate **486**. A moisture barrier **498**, such as building paper, is placed between the foam **502** and the exterior side **487** of top mounting plate **486**, which covers a hole created by the screw **510** or other mounting device, which secures the lath furring strip **480** to the wall **512**. The moisture barrier **498** is placed on top of the head of a screw **510** and

the exterior side **487** of the top mounting plate **482** to eliminate any moisture penetration from the plaster to the wall **512**. The moisture barrier **498** adheres to the top mop mounting plate 486 via an adhesive layer **506** to the exterior side **487** of the top mounting plate **486**. The bottom mounting plate **482** extends past the mounting leg **488** and is angled to form a first weep screed leg **490**. The first weep screed leg **490** is bent at a point **492** to form a second weep screed leg **494**, which is angled to form a weep screed extension **496** that sits flush with the wall **512**. This allows water to drip from the plaster on the lath **508** away from the wall that has penetrations. When the assembled, the lath furring strip weep screed **500** has a layer of insulation **502** in between the lath furring strip **480** and the lath **508**. The insulation layer **502** sits on the exterior side **487** of the top mounting plate **486**, which has a moisture barrier **498** between the insulation layer **502** and the exterior side **487**. From the top of the insulation layer **502** (where the attachment hole is located on the mounting leg **488**), to the top of the mounting leg **491** may be 0.365 inches for less, so that the distance from the plaster on the lath **508** to the insulation layer **502** is not greater than 0.365 inches, for proper keying of the plaster.

**[0094]** FIG. **16a** and FIG. **16b** depict embodiments of an integrated lath furring strip with a drip screed **520**, and an assembled lath furring strip **550** integrated with a mounting device **542**, lath **544**, and insulation layer **540**, on a wall **536**. The lath furring strip drip screed **520** has a mounting leg **528**, a top mounting plate **526** with an exterior side **527**, a bottom mounting plate **522** with an interior side **523** that lays flush against a wall **536**. There is a gap **529** between the bottom mounting plate **522** and top mounting plate **526**. The mounting leg **528** has an attachment hole (see FIG. **18** for location of an attachment hole **636** on a mounting leg **638**). The lath **544** is secured to the mounting leg **528** via a wire tie **546** or other attachment device. An insulation layer **540** is placed between the lath **546** and the lath furring strip **520**. The mounting leg **528** is substantially at a right angle to the top mounting plate **526**. A loop **524** bends the furring strip material substantially 180 degrees such that there is a second layer of furring strip material creating the bottom mounting plate **522**. A screw **542** or other mounting device secures the lath furring strip drip screed **520, 550** into a wall or sheathing **536** through both the top mounting plate **526** and the bottom mounting plate **522**. A moisture barrier **538**, such as building paper, is placed between the foam insulation **540** and the top mounting plate **526**. The moisture barrier **538** is installed on top of the head of the screw **542** or other mounting device,

which secures the lath furring strip **520** to the wall **536**. This placement eliminates any moisture barrier penetration from plaster to the wall **536** created by the penetration of the screw **542** into the top mounting plate **526**. The moisture barrier **538** adheres to the top mounting plate **526** by having an adhesive layer **529**. The bottom mounting plate **522** extends past the mounting leg **528** at an obtuse angle from the bottom mounting plate **522**, such that any water would fall down the drip screed leg **530**. From the top of the insulation layer **540** (where the attachment hole is located on the mounting leg **528**) to the top edge **531** of the mounting leg **528** is 0.365 inches so there is proper keying of plaster. The drip screed leg **530** may have a drip screed leg extension **532** or an additional angled extension **534** to further allow water to drip away from a wall **536**.

**[0095]** FIG. **17a** and FIG. **17b** depict embodiments of an integrated lath furring strip termination stop **560**, and a lath furring strip termination stop assembly **590** with a mounting device **581** and lath **580**. The lath furring strip termination stop **560** has a bottom mounting plate **562** having an interior side **663** that is positioned flush against a wall **576**, a top mounting plate **578** having an exterior side **567** where a moisture barrier **575** and insulation layer **574** can be positioned, and mounting leg **568** having a top edge **571**, and a gap **569** between the top mounting plate **566** and bottom mounting plate **562**. The mounting leg **568** has an attachment hole for attaching a lath **580** to the mounting leg **568** via an attachment device such as a wire tie **582** (see FIG. **18** for location of an attachment hole **636** on a mounting leg **638**). The mounting leg **568** is substantially at a right angle to a bottom mounting plate **562**. The distance from the top of the insulation layer **574** to the top edge **571** of the mounting leg **568** not greater than 0.365 inches in ensure proper keying of the plaster. theA loop **564** bends the furring strip material substantially 180 degrees such that there is a second layer of furring strip material which forms the top mounting plate **566**, which is substantially parallel to a bottom mounting plate **562**. A screw **581** or other mounting device secures the lath furring strip termination stop **560** onto a wall or sheathing **576** through both the furring top mounting plate **566** and bottom mounting plate **562**. A moisture barrier **576** is installed such that it is placed on top of the head of the screw **581** and the top mounting plate **566** to eliminate any moisture barrier penetration from plaster to the wall **576** created by the penetration of the screw **581** into the top mounting plate **566**, and bottom mounting plate **562** into the wall **576**. The moisture barrier **576** adheres to the exterior of the top mounting plate **566** via an adhesive layer

**578**, which prevents water from seeping in between the lath **580** or insulation layer **574** and the top mounting plate **566**. The bottom mounting plate **562** extends past the mounting leg **568** and forms a termination leg **570** substantially perpendicular to the bottom mounting plate **562** and parallel to the mounting leg **568**. The termination leg **570** has a termination leg extension **572** substantially perpendicular to the termination leg **570**. This allows water to drip from the plaster on the lath **580** away from the wall **576**. This termination stop structure is used where the plastering of a wall ends and other material begins, and prevents water from seeping into a wall **576**. An insulation layer **574** is positioned on top of the exterior side of the top mounting plate **566**, and has a moisture barrier **575** between the insulation layer **574** and the top mounting plate **566**.

**[0096]** FIG. **18a** and FIG. **18b** and FIG. **18c** illustrate three views of a furring strip **600** having a recessed groove **616** for a rubber gasket **618**, and an assembled lath furring strip **640** secured to a wall **620** and frame **624** having an insulation layer **628**. The recessed groove **616** allows a flexible elastic water resistive barrier, such as a rubber gasket **618** to line a mounting hole **614** without increasing the overall height of the furring strip **600**. The recessed groove **616** is within the interior side **612** of the mounting plate **610**. A raised region **606** on the exterior side **608** of the mounting plate **610** has a mounting hole **614**. The lath furring strip **600** can be secured to the wall via a screw **622**. The recessed groove **616** can have a variety of shapes that enable it to fit a rubber gasket **618**. A mounting leg **604** having a top vertical edge **602** is substantially perpendicular to the mounting plate **610** and has an attachment hole **636** for attaching lath **630** via a tie **632** or other attachment device. When assembled, there is a water resistive barrier **626**, such as building paper, contacting the interior side of the mounting plate **612** and the wall **620**. A screw **622** or other securing device penetrates the rubber basket **618**, wall **620**, and framing **624**. An insulation layer **628** is layered between the lath **630** and the exterior side of the mounting plate **610**. In order to achieve the proper spacing between the insulation layer **628** and lath **630**, the distance from the top of the insulation layer 628 (where the attachment hole **636** on the mounting leg **604** is located) to the top vertical edge **602** of the mounting leg **602** is not greater than 0.365 inches. However the height of the mounting leg **604** height can vary in size in different embodiments to accommodate different thicknesses of insulation layers **628**.

**[0097]** FIG. **19a** and FIG. **19b** depict an embodiment of an outside corner lath furring strip **650** and an assembled outside corner lath furring strip **680** with insulation **662** secured to a wall **664** and framing **666** via a screw **668**. The furring strip **650** has a first mounting plate **658** with an interior side **661** and an exterior side **663**, and a second mounting plate **660** with an interior side **665** and exterior side **667**. The first mounting plate **658** and second mounting plate **660** are substantially perpendicular to each other and fit around an outside corner of a wall **664** and lay substantially flush against the wall **664**. Integral with the first mounting plate **658** and second mounting plate **660** are a first mounting leg **652** and a second mounting leg **656** that are parallel to each other and connected through a top edge bend **654** in the furring strip **650**. Each mounting leg **652**, **656** has an attachment hole (see FIG. **18** for location of an attachment hole **636** on a mounting leg **638**), where lath **663** is attached to the furring strip via a wire tie **674**. Between the lath **663** and the mounting plates **658**, **660** and insulation layer **662** is placed. A moisture barrier **670** is placed on the exterior sides **663**, **667** each mounting plate **658**, **660** covering of the head of the screw **668** to eliminate any moisture barrier penetration from plaster to the wall **664** created by the penetration of the screw **668** into the mounting plate **658** into the wall **664**. The moisture barrier **670** attaches to the mounting plates **658**, **660** via an adhesive layer **672**. In order to achieve the proper spacing between the insulating layer **665** and the plaster or lath **663**, the distance from the top of the insulation layer **662** (where the attachment hole on the mounting legs **652**, **656** are located) to the top edge bend **654** connecting the two mounting legs **652**, **656** is not greater than 0.365 inches, however the height of the mounting legs **652**, **656** can vary in length in order accommodate different thicknesses of insulation layers **662**.

**[0098]** FIG. **20a** and FIG. **20b** depict embodiments of a window furring strip **690** and an assembled furring strip **720** with a lath **706**, mounting device **714**, and an insulation layer **710**. The window furring strip **690** has a bottom mounting plate 696 having and interior side **703** that sites flush against a wall, a top mounting plate 698 having an exterior side **699** where a moisture barrier **712** and insulation layer **710** can be placed, and mounting leg **700** having a top vertical edge **705**. The mounting leg **700** has an attachment hole (see FIG. **18** for location of an attachment hole **636** on a mounting leg **638**). The attachment hole is used for attaching a lath **706** to the mounting leg **700** via an attachment device such as a wire tie **708**. The mounting leg **700** is substantially at a right angle to a bottom mounting plate **696**. A top mounting

plate **698** is integral and substantially parallel to the bottom mounting plate **696** and has a gap **701** between the two plates **696**, **698**. A screw **714** or other mounting device secures the window furring strip **690** a wall or sheathing through both the bottom mounting plate **696** and the top mounting plate **698**. A moisture barrier **712**, such as building paper, is placed between the insulation layer **710** and the top mounting plate **698**, which covers a hole created by the screw **510** or other mounting device. The moisture barrier **712** adheres to the exterior side **699** of the top mounting plate **698**, which covers the screw **510** and exterior side **698** of the top mounting plate **486** via an adhesive layer **627**. The moisture barrier **712** prevents water from seeping in from between the insulation layer **710** and the top mounting plate **698**. Extending from the top mounting plate **698** is a mounting leg **700** where lath **706** attaches to the mounting leg **702** via a wire tie **708**. Extending from the bottom mounting plate **696** is a flared plate **694** designed to have a pre-tensioned shape in the metal to allow the furring strip **690** to seal tightly against the window flange **702** on a window frame **704** when a screw **714** penetrates through the top mounting plate **698** and the bottom mounting plate **696**. This assembly creates a tight seal between the lath furring strip **690** and the window flange **702**, which prevents moisture that may gather around the window **704** from seeping from the plaster on the lath **706** into the wall. In order to achieve the proper spacing between the insulating layer **710** and the plaster or lath **706**, the distance from the top of the insulation layer **710** (where the attachment hole of the mounting leg **700** is located) to the top edge **705** of the mounting leg **700** is not greater than 0.365 inches to ensure proper keying of the plaster, however the height of the mounting leg **700** can vary in size in different embodiments in order accommodate different thicknesses of insulation layers **710**.

**[0099]** The invention has been described in terms of preferred embodiments thereof, but is more broadly applicable as will be understood by those skilled in the art. The scope of the invention is only limited by the scope of the following claims and equivalents thereof.

CLAIMS

I claim:

1. A furring strip for attaching a lath, comprising:

a flexible elastic water resistive barrier;

a first mounting plate for mounting said furring strip onto a solid barrier;

a mounting leg extending substantially perpendicular from said first mounting plate;

an attachment hole for securing said lath to said mounting leg;

an adhesive layer on said flexible elastic water resistive barrier;

wherein the height of said furring strip does not exceed 0.365 inches;

wherein said mounting leg a hemmed mounting leg;

whereby the strength of said hemmed mounting leg is greater than the strength of a comparable non-hemmed mounting leg of the same height, due to said hemmed mounting leg having more furring strip material between said attachment hole and the edge of said mounting leg.

whereby said flexible elastic water resistive barrier seals holes in a moisture barrier, such as building paper, or seals holes in said furring strip, thereby preventing water from seeping through to said solid barrier; and

whereby said adhesive layer temporarily attaches said furring strip to said solid barrier before permanent fixture.

2. The furring strip of claim 1, wherein said flexible elastic water resistive barrier is a rubber sheet fixed to said first mounting plate.

3. The furring strip of claim 1, wherein said first mounting plate further comprises a recess.

4. The furring strip of claim 1, wherein said flexible elastic water resistive barrier is greater than or equal to 1/16 of one inch.

5. The furring strip of claim 1,

wherein said furring strip integrated into a weep screed further comprising a second mounting plate;

whereby said weep screed prevents water from wicking up into the exterior plaster walls, and allows water that may get into walls to migrate out; and

whereby said second mounting leg is secured to wall or sheathing, providing an additional layer of protection against water seepage into a wall, sheathing, or framing.

6. The furring strip of claim 1,

wherein said furring strip is integrated into a termination stop further comprising a second mounting plate;

wherein said termination stop has a profile height from the bottom side of said second mounting plate to said mounting leg of 0.365 inches or less and a profile height from said second mounting plate to the top of said termination stop of 0.875 inches or less;

whereby said termination stop is used around the windows or doors as the termination of placing plaster on a wall, or sheathing and prevents water seeping; and

whereby said second mounting plate is against a wall or sheathing, which adds an additional layer of protection against water seepage into a wall, sheathing, or framing.

7. The furring strip of claim 1,

wherein said furring strip is integrated into a drip screed further comprising a second mounting plate;

whereby said drip screed is used around the outside of a window for water to drop from the stucco away from a wall, sheathing or framing; and

whereby said second mounting plate adds an additional layer of protection against water seepage into a wall, sheathing, or framing.

8. The furring strip of claim 3, wherein said flexible elastic resistive barrier is a rubber gasket.

9. The furring strip of claim 8, wherein said rubber gasket is a lengthwise strip that runs substantially across the length of said furring strip within said recess.

10. The furring strip of claim 3, wherein said flexible elastic water resistive barrier is substantially interposed within said recess.

11. The furring strip of claim 8, wherein said rubber gasket is interposed substantially within a recessed cavity, and wherein said recessed cavity is substantially limited to being around a mounting hole, whereby said mounting is used to secure said furring strip to said solid barrier via a mounting device such as a screw or nail.

12. A lath and furring attachment system, comprising:

said furring strip of claim 1;

a lath;

a attachment device for securing said lath to said furring strip;

a moisture barrier; and

a mounting device for securing said furring strip to said solid barrier.

13. The lath and furring strip attachment system of claim 12 wherein said solid barrier is sheathing covered by said moisture barrier.

14. The lath and furring attachment system of claim 12, wherein said moisture barrier is between said furring strip and said sheathing.

15. The lath and furring attachment system of claim 12, further comprising a termination stop or channel screed.

16. The lath and furring attachment system of claim 15, wherein said moisture barrier is between said solid barrier and said furring, and wherein said moisture barrier is between said solid barrier and said termination stop or said channel screed.

17. The lath and furring attachment system of claim 15, wherein said channel screed or said termination stop further comprises a flexible elastic water resistive barrier.

18. The lath and furring system of claim 12, wherein said moisture barrier is on top of said termination stop or channel screed, and wherein said moisture barrier is between said furring strip and said solid barrier.

19. The lath and furring attachment system of claim 12, wherein said first attachment device is a C ring, whereby said C ring reduces the height of the lath and furring strip system compared to other types of attachment devices.

20. A furring strip for attaching lath to a corner, comprising:

a flexible elastic water resistive barrier;

a first mounting plate for mounting said furring strip onto a solid barrier;

a second mounting plate adjacent to, and substantially perpendicular to said first mounting plate;

a first hemmed mounting leg extending substantially perpendicular from said first mounting plate;

a second hemmed mounting leg adjacent to, and substantially perpendicular to said second mounting plate;

a first attachment hole for attaching lath to said furring strip on said first mounting leg;

a second attachment hole for attaching lath to said second mounting leg,

wherein said first mounting plate is substantially parallel to said second mounting leg;

wherein said second mounting plate is substantially parallel to said first mounting leg;

wherein said first mounting plate is substantially perpendicular to said first mounting leg;

wherein said second mounting plate is substantially perpendicular to said second mounting leg;

an adhesive layer on said flexible elastic water resistive barrier,

wherein the height of said furring strip does not exceed 0.365 inches,

wherein said first and said second mounting legs are a first and second hemmed mounting legs;

whereby the strength of said first and second hemmed mounting legs are greater than the strength of a comparable first and second non-hemmed mounting leg of the same height, due to said first and second hemmed mounting leg having more furring strip material between said first and second attachment holes and the edge of said mounting leg;

whereby said flexible elastic water resistive barrier seals holes in a moisture barrier, such as building paper, or seals holes in said furring strip, thereby preventing water from seeping through to said solid barrier; and

whereby said adhesive layer temporarily attaches said furring strip to said solid barrier before permanent fixture.

21. A lath mounting device for mounting to a wall, comprising:

a mounting leg, a first mounting plate and a second mounting plate, said first mounting plate having a front side and back side;

said mounting leg formed at a substantially right angle to said front side of said first mounting plate and having at least one hole formed in said mounting leg for attaching lath;

said second mounting plate connected to said first mounting plate in a manner to permit said second mounting plate to be substantially parallel said back side of first mounting plate, said second mounting plate having a length greater than said first mounting plate wherein said second mounting plate has a terminal end that includes an angled leg that crosses the plane of the first mounting plate;

and whereby said lath mounting device provides a unitary structure that creates two layers of plates to inhibit water penetration to said wall and also provides an angled leg formed with said device to channel water away at the bottom of said wall.

22. A furring strip integrated with a reveal for attaching a lath, comprising:

a first bottom mounting plate having a base that forms a first bottom mounting plane, and a first top mounting plate, wherein said first top mounting plate is integral and substantially parallel to said first bottom mounting plate;

a second bottom mounting plate having a base that forms a second bottom mounting plane, a second top mounting plate, wherein said second top mounting plate is integral and substantially parallel to said second bottom mounting plate;

a first mounting leg substantially perpendicular to said first top mounting plate, and a second mounting leg substantially perpendicular to said second top mounting plate;

a recessed reveal integrally connecting said first and said second bottom mounting plates, wherein said recessed reveal has a first projection extending

from said first bottom mounting plate, and a second projection extending from said second bottom mounting plate;

wherein said first and said second mounting legs have at least one hole for attaching a lath to said furring strip; and,

wherein the distance from the first bottom mounting plane to the top of said first mounting leg, and the distance from the second bottom mounting plane to the top of said second mounting leg does not exceed 0.365 inches.

23. The furring strip of claim 22 further comprising a flexible elastic water resistive barrier on said first and said second bottom plates.

24. The furring strip of claim 23, wherein said flexible elastic water resistive barrier is greater than or equal to 1/16 of an inch.

25. The furring strip of claim 23, wherein said flexible elastic water resistive barrier is greater than or equal to 1/32 of an inch.

26. The furring strip of claim 22 wherein said first and said second mounting legs are a first and a second hemmed mounting leg.

27. A two-piece expansion joint integrated with a lath furring strip, comprising:

a first expansion joint and a second expansion joint overlapping said first expansion joint;

Said first expansion joint comprising, a first bottom mounting plate having a base that forms a first bottom mounting plane, a first top mounting plate substantially parallel to said bottom mount plate, a first mounting leg for securing lath, a first overlapping plate substantially parallel to said first bottom mounting plate, a first vertical termination leg, and a first overhanging flange extending substantially perpendicular to said first vertical termination leg;

Said second expansion joint comprising a second bottom mounting plate having a base that forms a second bottom mounting plane, a second a top mounting plate, a second mounting leg for securing lath, a flare extending angularly from said second bottom mounting plate to form a second overlapping plate, a second vertical termination leg, and a second overhanging flange substantially perpendicular from said second vertical termination leg;

wherein said first mounting leg and said second mounting leg have at least one hole for securing lath; and,

wherein the distance from the first bottom mounting plane to the top of said first mounting leg, and the distance from the second bottom mounting plane to the top of said second mounting leg does not exceed 0.365 inches;

whereby said first expansion joint and said second expansion joint can be installed such that said flare allows for a slideable seal between said first expansion joint and said second expansion joint;

whereby said flashing and said second overlapping plate create a pre-tensioned bend in said second expansion joint to allow for a tight seal when said first and second expansion joints are fastened to a framing member, thereby providing superior moisture intrusion protection; and,

whereby said two-piece expansion joint can be installed to provide a variable size to an expansion joint width depending on the width specified to in an architectural plan.

28. The furring strip of claim 27 further comprising a flexible elastic water resistive barrier on said first and said second bottom plates.

29. The furring strip of claim 28, wherein said flexible elastic water resistive barrier is greater than or equal to 1/16 of an inch.

30. The furring strip of claim 28, wherein said flexible elastic water resistive barrier is greater than or equal to 1/32 of an inch.

31. The furring strip of claim 27 wherein said first and said second mounting legs are a first and a second hemmed mounting leg.

32. A furring strip for attaching a lath, comprising:

a bottom mounting plate having a base forming a bottom mounting plane, a top mounting plate, wherein said top mounting plate has a base is integral and substantially parallel to said bottom mounting plate;

a mounting leg extending substantially perpendicular to said top mounting plate;

a flare extending from said bottom mounting plate;

a flashing plate extending from said flare;

wherein said mounting leg has at least one attachment hole for securing said lath to said furring strip;

wherein the distance from said bottom mounting plane to the top of said mounting leg does not exceed 0.365 inches; and,

whereby said furring strip has a pre-tensioned shape to allow said furring strip to seal tightly against a window flange to provide superior moisture intrusion protection while minimizing the depth of flashing around a window.

33. The furring strip of claim 32 further comprising a flexible elastic water resistive barrier on said first and said second bottom plates.

34. The furring strip of claim 33, wherein said flexible elastic water resistive barrier is greater than or equal to 1/16 of an inch.

35. The furring strip of claim 33, wherein said flexible elastic water resistive barrier is greater than or equal to 1/32 of an inch.

36. The furring strip of claim 32 wherein said first and said second mounting legs are a first and a second hemmed mounting leg.

37. A furring strip for attaching a lath and an insulation layer to a wall, comprising:

a bottom mounting plate having an interior side that is substantially planar, said interior side for placement substantially flush against the wall;

a top mounting plate having an exterior side that is substantially planar;

said bottom and top mounting plates are substantially parallel to each other and secured together in a manner that maintains a gap between them;

said insulation positioned against said exterior side of said top mounting plate;

a mounting leg secured to, and extending substantially perpendicular from, said top mounting plate and passing through said insulation, said mounting leg having at least one attachment hole for securing said lath to said furring strip; and,

whereby the positioning of said insulation layer between said lath and said mounting plates is that only the furring strip, and not the insulation layer, is penetrated to secure said furring strip to the wall protects against water intrusion and thermal bridging.

38. The furring strip of claim 37, wherein said mounting leg has a top vertical edge and the distance between said attachment hole and said top vertical edge of said mounting leg does not exceed 0.365 inches; and,

thereby allowing enough space between said lath and said insulation layer to properly key plaster on said lath.

39. The furring strip of claim 37, further comprising:

a flared extension extending angularly from said bottom mounting plate;

a flashing plate that is substantially planar for placement substantially flush against a window flange, said flashing plate extending from said flared extension; and,

thereby allowing said furring strip to seal tightly against said window flange to provide superior moisture intrusion protection.

40. The furring strip of claim 37, further comprising:

a drip screed leg extending obtusely from said bottom mounting plate.

41. The furring strip of claim 37, further comprising:

a weep screed contiguous with said bottom mounting plate;

said weep screed having a first weep screed leg extending obtusely from said bottom mounting plate, and a second weep screed leg contiguous with said first weep screed leg extending angularly from said first weep screed leg forming an acute angel between said first and said second weep screed leg.

42. The furring strip of claim 41, further comprising:

An extension plate extending angularly from said second weep screed leg for placement of said extension plate substantially flush against the wall.

43. The furring strip of claim 37, further comprising:

a termination stop leg secured to, and extending substantially perpendicular from said bottom mounting plate;

said termination stop leg is longer than, and substantially parallel to said mounting leg.

44. The furring strip of claim 43, further comprising:

a termination stop leg extension substantially perpendicular to said termination stop leg.

45. A furring strip for an outside corner of a wall for attaching a lath and an insulation layer to a wall, comprising:

a first mounting plate having an interior side that is substantially planar, said interior side for placement substantially flush against the wall and a first exterior side for placement of said insulation layer;

a second mounting plate having an interior side that is substantially planar, said interior side for placement substantially flush against the wall and a second exterior side for placement of said insulation layer, said second mounting plate is substantially perpendicular to said first mounting plate;

a first mounting leg extending angularly from said first mounting plate, said first mounting leg having a first attachment hole for attaching lath;

a second mounting leg extending angularly from said second mounting plate, said second mounting leg having a second attachment hole for attaching lath;

said first mounting leg is secured to said second mounting leg;

said insulation layer positioned against first and said second exterior sides of said first and said second mounting plates; and,

whereby said lath furring strip provides superior insulation and moisture protection when said insulation layer is placed between said mounting plates and said lath.

46. The lath furring strip of claim 45, wherein,

said first and said second mounting legs have a top edge connecting said first and said second mounting legs; and,

the distance between each of said first and said second attachment holes to said top edge is not greater than 0.365 inches.

47. The lath furring strip of claim 45, wherein said first mounting leg is angled obtusely from said first mounting plate, and said second mounting leg is angled obtusely from said second mounting plate.

48. A furring strip for attaching a lath and an insulation layer to a wall, comprising:

a mounting plate having an interior side that is substantially planar, said interior side having a recessed groove for placement of a flexible elastic barrier, and said mounting plate having an exterior side;

a mounting leg secured to, and extending substantially perpendicular from said mounting plate;

said insulation positioned against said exterior side of said mounting plate, said mounting leg passing through said insulation;

said mounting leg having at least one attachment hole for securing said lath to said furring strip;

whereby the positioning of said insulation layer between said lath and said mounting plate is that only the furring strip, and not the insulation layer, is penetrated to secure said furring strip to the wall protects against water intrusion and thermal bridging.

49. The lath furring strip of claim 48, wherein said recessed groove runs substantially across the length of said mounting plate.

50. The lath furring strip of claim 48, wherein,

said mounting leg has a top vertical edge; and,

the distance between said attachment hole and said top vertical edge of said mounting leg is not greater than 0.365 inches.

AMENDED CLAIMS
received by the International Bureau on 28 August 2013 (28.08.2013)

I claim:

1. (Currently Amended) A furring strip for attaching a lath, comprising:

a flexible elastic water resistive barrier;

a first mounting plate for mounting said furring strip onto a solid barrier, said flexible elastic water resistive barrier affixed to said first mounting plate between said first mounting plate and said solid barrier;

a mounting leg extending substantially perpendicular from said first mounting plate;

an attachment hole on said mounting leg for directly securing said lath to said mounting leg;

an adhesive layer on said flexible elastic water resistive barrier;

wherein the height of said furring strip does not exceed 0.365 inches;

wherein said mounting leg a hemmed mounting leg;

whereby the strength of said hemmed mounting leg is greater than the strength of a comparable non-hemmed mounting leg of the same height, due to said hemmed mounting leg having more furring strip material between said attachment hole and the edge of said mounting leg.

whereby said flexible elastic water resistive barrier seals holes in a moisture barrier, such as building paper, or seals holes in said furring strip, thereby preventing water from seeping through to said solid barrier; and

whereby said adhesive layer temporarily attaches said furring strip to said solid barrier before permanent fixture.

2. (Unchanged) The furring strip of claim 1, wherein said flexible elastic water resistive barrier is a rubber sheet fixed to said first mounting plate.

3. (Currently Amended) The furring strip of claim 1, wherein said first mounting plate further comprises a surface recess within said first mounting plate.

4. (Unchanged) The furring strip of claim 1, wherein said flexible elastic water resistive barrier is greater than or equal to 1/16 of one inch.

5. (Currently Amended) The furring strip of claim 1,

wherein said furring strip integrated into a weep screed further comprising a second mounting plate for mounting said furring strip to a wall or sheathing, said second mounting plate is substantially parallel to said first mounting plate;

whereby said weep screed prevents water from wicking up into the exterior plaster walls, and allows water that may get into walls to migrate out; and

whereby said second mounting plate is secured to wall or sheathing, providing an additional layer of protection against water seepage into a wall, sheathing, or framing.

6. (Unchanged) The furring strip of claim 1,

wherein said furring strip is integrated into a termination stop further comprising a second mounting plate;

wherein said termination stop has a profile height from the bottom side of said second mounting plate to said mounting leg of 0.365 inches or less and a profile height from said second mounting plate to the top of said termination stop of 0.875 inches or less;

whereby said termination stop is used around the windows or doors as the termination of placing plaster on a wall, or sheathing and prevents water seeping; and

whereby said second mounting plate is against a wall or sheathing, which adds an additional layer of protection against water seepage into a wall, sheathing, or framing.

7. (Unchanged) The furring strip of claim 1,

wherein said furring strip is integrated into a drip screed further comprising a second mounting plate;

whereby said drip screed is used around the outside of a window for water to drop from the stucco away from a wall, sheathing or framing; and

whereby said second mounting plate adds an additional layer of protection against water seepage into a wall, sheathing, or framing.

8. (Unchanged) The furring strip of claim 3, wherein said flexible elastic resistive barrier is a rubber gasket.

9. (Unchanged) The furring strip of claim 8, wherein said rubber gasket is a lengthwise strip that runs substantially across the length of said furring strip within said recess.

10. (Unchanged) The furring strip of claim 3, wherein said flexible elastic water resistive barrier is substantially interposed within said recess.

11. (Unchanged) The furring strip of claim 8, wherein said rubber gasket is interposed substantially within a recessed cavity, and wherein said recessed cavity is substantially limited to being around a mounting hole, whereby said mounting is used to secure said furring strip to said solid barrier via a mounting device such as a screw or nail.

12. (Currently Amended) A lath and furring attachment system, comprising:
said furring strip of claim 1;
a lath secured to a mounting leg on said furring strip;
a attachment device for securing said lath to said furring strip;
a moisture barrier between said furring strip and said solid barrier; and
a mounting device for securing said furring strip to said solid barrier.

13. (Unchanged) The lath and furring strip attachment system of claim 12 wherein said solid barrier is sheathing covered by said moisture barrier.

14. (Currently Amended) The lath and furring attachment system of claim 13, wherein said moisture barrier is between said furring strip and said sheathing.

15. (Unchanged) The lath and furring attachment system of claim 12, further comprising a termination stop or channel screed.

16. (Unchanged) The lath and furring attachment system of claim 15, wherein said moisture barrier is between said solid barrier and said furring, and wherein said moisture barrier is between said solid barrier and said termination stop or said channel screed.

17. (Unchanged) The lath and furring attachment system of claim 15, wherein said channel screed or said termination stop further comprises a flexible elastic water resistive barrier.

18. (Unchanged) The lath and furring system of claim 12, wherein said moisture barrier is on top of said termination stop or channel screed, and wherein said moisture barrier is between said furring strip and said solid barrier.

19. (Unchanged) The lath and furring attachment system of claim 12, wherein said first attachment device is a C ring, whereby said C ring reduces the height of the lath and furring strip system compared to other types of attachment devices.

20. (Currently Amended) A furring strip for attaching lath to a corner, comprising:

a flexible elastic water resistive barrier;

a first mounting plate for mounting said furring strip onto a solid barrier, said flexible elastic water resistive barrier affixed to said first mounting plate between said first mounting plate and said solid barrier;

a second mounting plate adjacent to, and substantially perpendicular to said first mounting plate;

a first hemmed mounting leg extending substantially perpendicular from said first mounting plate;

a second hemmed mounting leg adjacent to, and substantially perpendicular to said second mounting plate;

a first attachment hole for attaching lath to said furring strip on said first mounting leg;

a second attachment hole for attaching lath to said second mounting leg,

wherein said first mounting plate is substantially parallel to said second mounting leg;

wherein said second mounting plate is substantially parallel to said first mounting leg;

wherein said first mounting plate is substantially perpendicular to said first mounting leg;

wherein said second mounting plate is substantially perpendicular to said second mounting leg;

an adhesive layer on said flexible elastic water resistive barrier,

wherein the height of said furring strip does not exceed 0.365 inches,

wherein said first and said second mounting legs are a first and second hemmed mounting legs;

whereby the strength of said first and second hemmed mounting legs are greater than the strength of a comparable first and second non-hemmed mounting leg of the same height, due to said first and second hemmed mounting leg having more furring strip material between said first and second attachment holes and the edge of said mounting leg;

whereby said flexible elastic water resistive barrier seals holes in a moisture barrier, such as building paper, or seals holes in said furring strip, thereby preventing water from seeping through to said solid barrier; and

whereby said adhesive layer temporarily attaches said furring strip to said solid barrier before permanent fixture.

21. (Unchanged) A lath mounting device for mounting to a wall, comprising:

a mounting leg, a first mounting plate and a second mounting plate, said first mounting plate having a front side and back side;

said mounting leg formed at a substantially right angle to said front side of said first mounting plate and having at least one hole formed in said mounting leg for

attaching lath;

said second mounting plate connected to said first mounting plate in a manner to permit said second mounting plate to be substantially parallel said back side of first mounting plate, said second mounting plate having a length greater than said first mounting plate wherein said second mounting plate has a terminal end that includes an angled leg that crosses the plane of the first mounting plate;

and whereby said lath mounting device provides a unitary structure that creates two layers of plates to inhibit water penetration to said wall and also provides an angled leg formed with said device to channel water away at the bottom of said wall.

22. (Unchanged) A furring strip integrated with a reveal for attaching a lath, comprising:

a first bottom mounting plate having a base that forms a first bottom mounting plane, and a first top mounting plate, wherein said first top mounting plate is integral and substantially parallel to said first bottom mounting plate;

a second bottom mounting plate having a base that forms a second bottom mounting plane, a second top mounting plate, wherein said second top mounting plate is integral and substantially parallel to said second bottom mounting plate;

a first mounting leg substantially perpendicular to said first top mounting plate, and a second mounting leg substantially perpendicular to said second top mounting plate;

a recessed reveal integrally connecting said first and said second bottom mounting plates, wherein said recessed reveal has a first projection extending from said first bottom mounting plate, and a second projection extending from said second bottom mounting plate;

wherein said first and said second mounting legs have at least one hole for attaching a lath to said furring strip; and,

wherein the distance from the first bottom mounting plane to the top of said first mounting leg, and the distance from the second bottom mounting plane to the top of said second mounting leg does not exceed 0.365 inches.

23. (Unchanged) The furring strip of claim 22 further comprising a flexible elastic water resistive barrier on said first and said second bottom plates.

24. (Unchanged) The furring strip of claim 23, wherein said flexible elastic water resistive barrier is greater than or equal to 1/16 of an inch.

25. (Unchanged) The furring strip of claim 23, wherein said flexible elastic water resistive barrier is greater than or equal to 1/32 of an inch.

26. (Unchanged) The furring strip of claim 22 wherein said first and said second mounting legs are a first and a second hemmed mounting leg.

27. (Unchanged) A two-piece expansion joint integrated with a lath furring strip, comprising:

a first expansion joint and a second expansion joint overlapping said first expansion joint;

Said first expansion joint comprising, a first bottom mounting plate having a base that forms a first bottom mounting plane, a first top mounting plate substantially parallel to said bottom mount plate, a first mounting leg for securing lath, a first overlapping plate substantially parallel to said first bottom mounting plate, a first vertical termination leg, and a first overhanging flange extending substantially perpendicular to said first vertical termination leg;

Said second expansion joint comprising a second bottom mounting plate having a base that forms a second bottom mounting plane, a second a top mounting plate, a second mounting leg for securing lath, a flare extending angularly from said second bottom mounting plate to form a second overlapping plate, a second vertical termination leg, and a second overhanging flange substantially perpendicular from said second vertical termination leg;

wherein said first mounting leg and said second mounting leg have at least one hole for securing lath; and,

wherein the distance from the first bottom mounting plane to the top of said first mounting leg, and the distance from the second bottom mounting plane to the top of said second mounting leg does not exceed 0.365 inches;

whereby said first expansion joint and said second expansion joint can be installed such that said flare allows for a slideable seal between said first expansion joint and said second expansion joint;

whereby said flashing and said second overlapping plate create a pre-tensioned bend in said second expansion joint to allow for a tight seal when said first and second expansion joints are fastened to a framing member, thereby providing superior moisture intrusion protection; and,

whereby said two-piece expansion joint can be installed to provide a variable size to an expansion joint width depending on the width specified to in an architectural plan.

28. (Unchanged) The furring strip of claim 27 further comprising a flexible elastic water resistive barrier on said first and said second bottom plates.

29. (Unchanged) The furring strip of claim 28, wherein said flexible elastic water resistive barrier is greater than or equal to 1/16 of an inch.

30. (Unchanged) The furring strip of claim 28, wherein said flexible elastic water resistive barrier is greater than or equal to 1/32 of an inch.

31. (Unchanged) The furring strip of claim 27 wherein said first and said second mounting legs are a first and a second hemmed mounting leg.

32. (Unchanged) A furring strip for attaching a lath, comprising:

a bottom mounting plate having a base forming a bottom mounting plane, a top mounting plate, wherein said top mounting plate has a base is integral and substantially parallel to said bottom mounting plate;

a mounting leg extending substantially perpendicular to said top mounting plate;

a flare extending from said bottom mounting plate;

a flashing plate extending from said flare;

wherein said mounting leg has at least one attachment hole for securing said lath to said furring strip;

wherein the distance from said bottom mounting plane to the top of said mounting leg does not exceed 0.365 inches; and,

whereby said furring strip has a pre-tensioned shape to allow said furring strip to seal tightly against a window flange to provide superior moisture intrusion protection while minimizing the depth of flashing around a window.

33. (Unchanged) The furring strip of claim 32 further comprising a flexible elastic water resistive barrier on said first and said second bottom plates.

34. (Unchanged) The furring strip of claim 33, wherein said flexible elastic water resistive barrier is greater than or equal to 1/16 of an inch.

35. (Unchanged) The furring strip of claim 33, wherein said flexible elastic water resistive barrier is greater than or equal to 1/32 of an inch.

36. (Unchanged) The furring strip of claim 32 wherein said first and said second mounting legs are a first and a second hemmed mounting leg.

37. (Unchanged) A furring strip for attaching a lath and an insulation layer to a wall, comprising:

a bottom mounting plate having an interior side that is substantially planar, said interior side for placement substantially flush against the wall;

a top mounting plate having an exterior side that is substantially planar;

said bottom and top mounting plates are substantially parallel to each other and secured together in a manner that maintains a gap between them;

said insulation positioned against said exterior side of said top mounting plate;

a mounting leg secured to, and extending substantially perpendicular from, said top mounting plate and passing through said insulation, said mounting leg having at least one attachment hole for securing said lath to said furring strip; and,

whereby the positioning of said insulation layer between said lath and said mounting plates is that only the furring strip, and not the insulation layer, is penetrated to secure said furring strip to the wall protects against water intrusion and thermal bridging.

38. (Unchanged) The furring strip of claim 37, wherein said mounting leg has a top vertical edge and the distance between said attachment hole and said top vertical edge of said mounting leg does not exceed 0.365 inches; and,

thereby allowing enough space between said lath and said insulation layer to properly key plaster on said lath.

39. (Unchanged) The furring strip of claim 37, further comprising:

a flared extension extending angularly from said bottom mounting plate;

a flashing plate that is substantially planar for placement substantially flush against a window flange, said flashing plate extending from said flared extension; and,

thereby allowing said furring strip to seal tightly against said window flange to provide superior moisture intrusion protection.

40. (Unchanged) The furring strip of claim 37, further comprising:

a drip screed leg extending obtusely from said bottom mounting plate.

41. (Unchanged) The furring strip of claim 37, further comprising:

a weep screed contiguous with said bottom mounting plate;

said weep screed having a first weep screed leg extending obtusely from said bottom mounting plate, and a second weep screed leg contiguous with said first weep screed leg extending angularly from said first weep screed leg forming an acute angel between said first and said second weep screed leg.

42. (Unchanged) The furring strip of claim 41, further comprising:

An extension plate extending angularly from said second weep screed leg for placement of said extension plate substantially flush against the wall.

43. (Unchanged) The furring strip of claim 37, further comprising:

a termination stop leg secured to, and extending substantially perpendicular from said bottom mounting plate;

said termination stop leg is longer than, and substantially parallel to said mounting leg.

44. (Unchanged) The furring strip of claim 43, further comprising:

a termination stop leg extension substantially perpendicular to said termination stop leg.

45. (Unchanged) A furring strip for an outside corner of a wall for attaching a lath and an insulation layer to a wall, comprising:

a first mounting plate having an interior side that is substantially planar, said interior side for placement substantially flush against the wall and a first exterior side for placement of said insulation layer;

a second mounting plate having an interior side that is substantially planar, said interior side for placement substantially flush against the wall and a second exterior side for placement of said insulation layer, said second mounting plate is substantially perpendicular to said first mounting plate;

a first mounting leg extending angularly from said first mounting plate, said first mounting leg having a first attachment hole for attaching lath;

a second mounting leg extending angularly from said second mounting plate, said second mounting leg having a second attachment hole for attaching lath;

said first mounting leg is secured to said second mounting leg;

said insulation layer positioned against first and said second exterior sides of said first and said second mounting plates; and,

whereby said lath furring strip provides superior insulation and moisture protection when said insulation layer is placed between said mounting plates and said lath.

46. (Unchanged) The lath furring strip of claim 45, wherein,

said first and said second mounting legs have a top edge connecting said first and said second mounting legs; and,

the distance between each of said first and said second attachment holes to said top edge is not greater than 0.365 inches.

47. (Unchanged) The lath furring strip of claim 45, wherein said first mounting leg is angled obtusely from said first mounting plate, and said second mounting leg is angled obtusely from said second mounting plate.

48. (Unchanged) A furring strip for attaching a lath and an insulation layer to a wall, comprising:

a mounting plate having an interior side that is substantially planar, said interior side having a recessed groove for placement of a flexible elastic barrier, and said mounting plate having an exterior side;

a mounting leg secured to, and extending substantially perpendicular from said mounting plate;

said insulation positioned against said exterior side of said mounting plate, said mounting leg passing through said insulation;

said mounting leg having at least one attachment hole for securing said lath to said furring strip;

whereby the positioning of said insulation layer between said lath and said mounting plate is that only the furring strip, and not the insulation layer, is penetrated to secure said furring strip to the wall protects against water intrusion and thermal bridging.

49. (Unchanged) The lath furring strip of claim 48, wherein said recessed groove runs substantially across the length of said mounting plate.

50. (Unchanged) The lath furring strip of claim 48, wherein,

said mounting leg has a top vertical edge; and,

the distance between said attachment hole and said top vertical edge of said mounting leg is not greater than 0.365 inches.

# STATEMENT UNDER ARTICLE 19(1)

Dear Sir/Madam:

On June 28, 2013, the International Search Authority issued the International Search Report for the above-referenced international application. Applicant hereby timely submits Article 19 Amendments to the application within two months after transmittal of the International Search Report.

Replacement Sheets 1-12 for the claims are submitted for every sheet of claims. Claims 1, 3, 5, 12, 14, and 20 have been amended.

Independent Claims 1 was amended to clarify the position of the flexible elastic water resistive barrier and the position of the attachment hole on the mounting leg.

Dependent claim 3 was amended to clarify that the first mount plate has a recess, and that recess is a surface recess within the first mounting plate.

Dependent claim 5 has been amended to clarify that the second mounting plate is for mounting the furring strip to a wall or sheathing, and the second mounting plate is substantially parallel to the first mounting plate. Claim 5 also corrects an error where a mounting "leg" was put in a limitation, and has been corrected to read a mounting "plate."

Claim 12 has been amended to limit the lath being "secured to a mounting leg on said furring strip," and that the moisture barrier is "between said furring strip and said solid barrier."

Claim 14 has been amended to correct the number from which it depends. Claim 14 now depends from claim 13 instead of Claim 12.

Claim 20 has been amended such that the flexible elastic water resistive barrier is "affixed to said first mounting plate between said first mounting plate and said solid barrier."

The remaining claims, Claims 2, 4, 6-11, 13, 15-19, and 21-50 are unchanged. No new matter is added to the claims by the amendments.

Support for the claim amendments can be found in the Specification at least Figures 1, 5, 7 and 9.

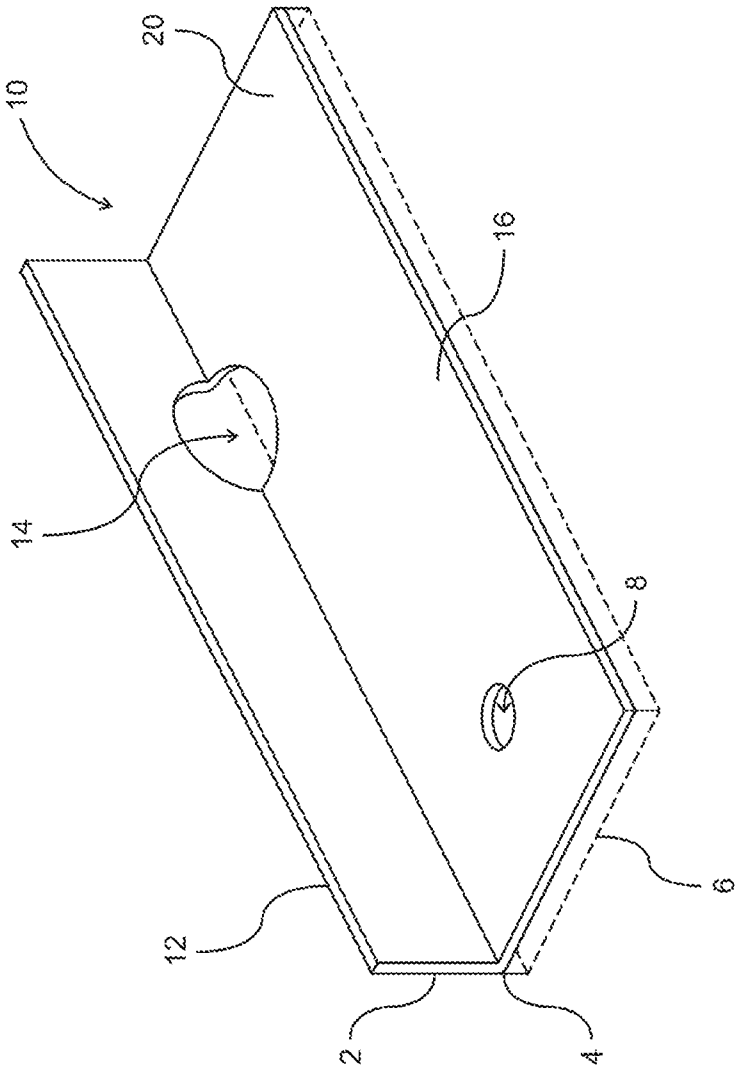


Fig. 1b

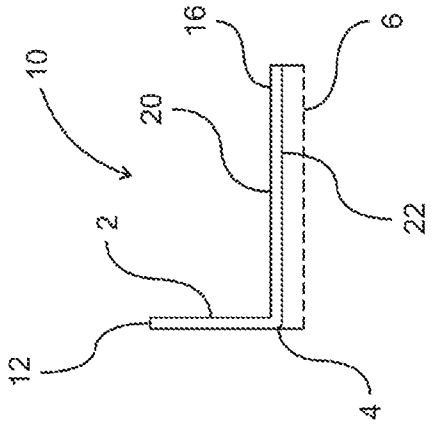


Fig. 1a

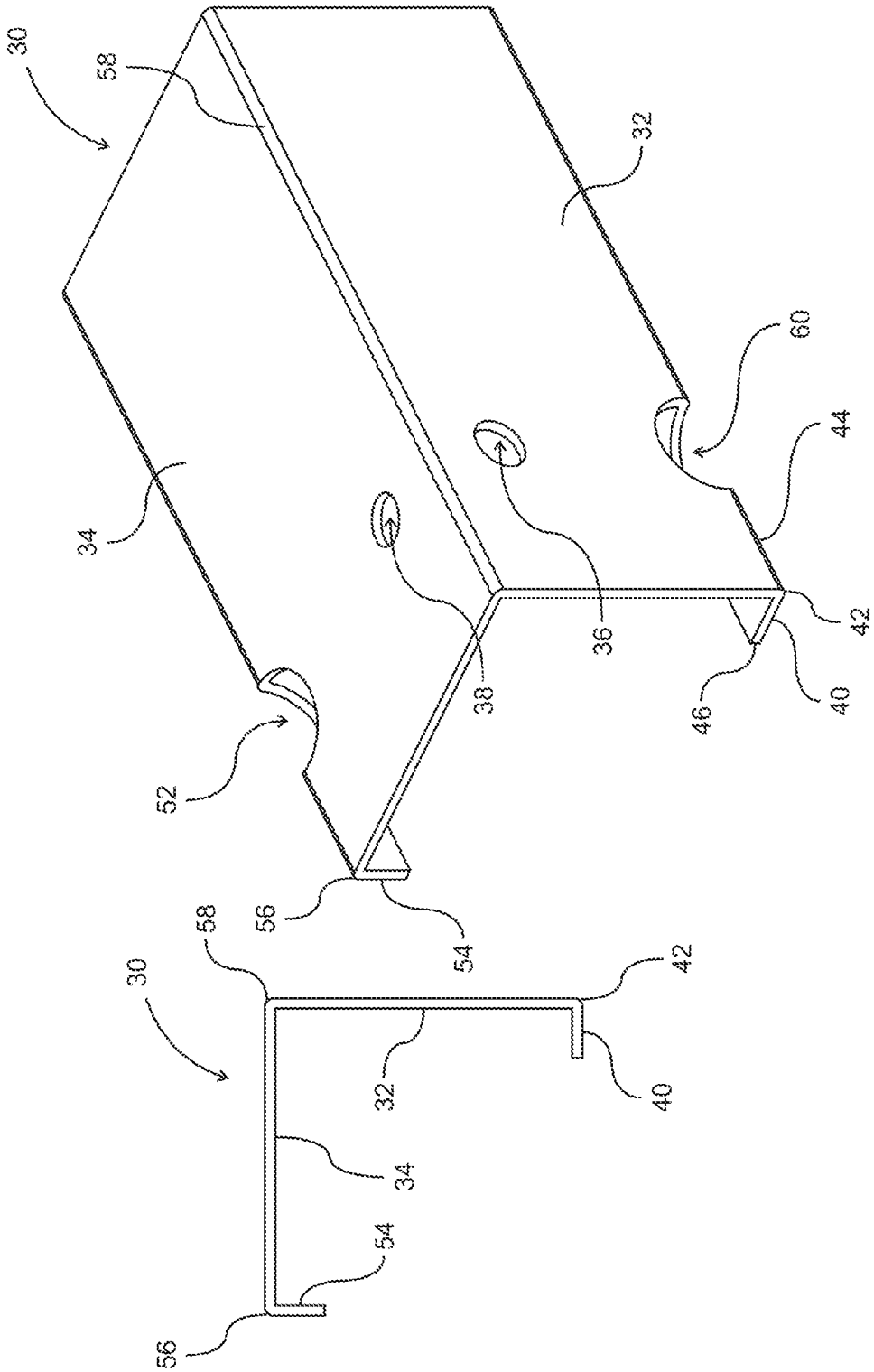


Fig. 2b

Fig. 2a

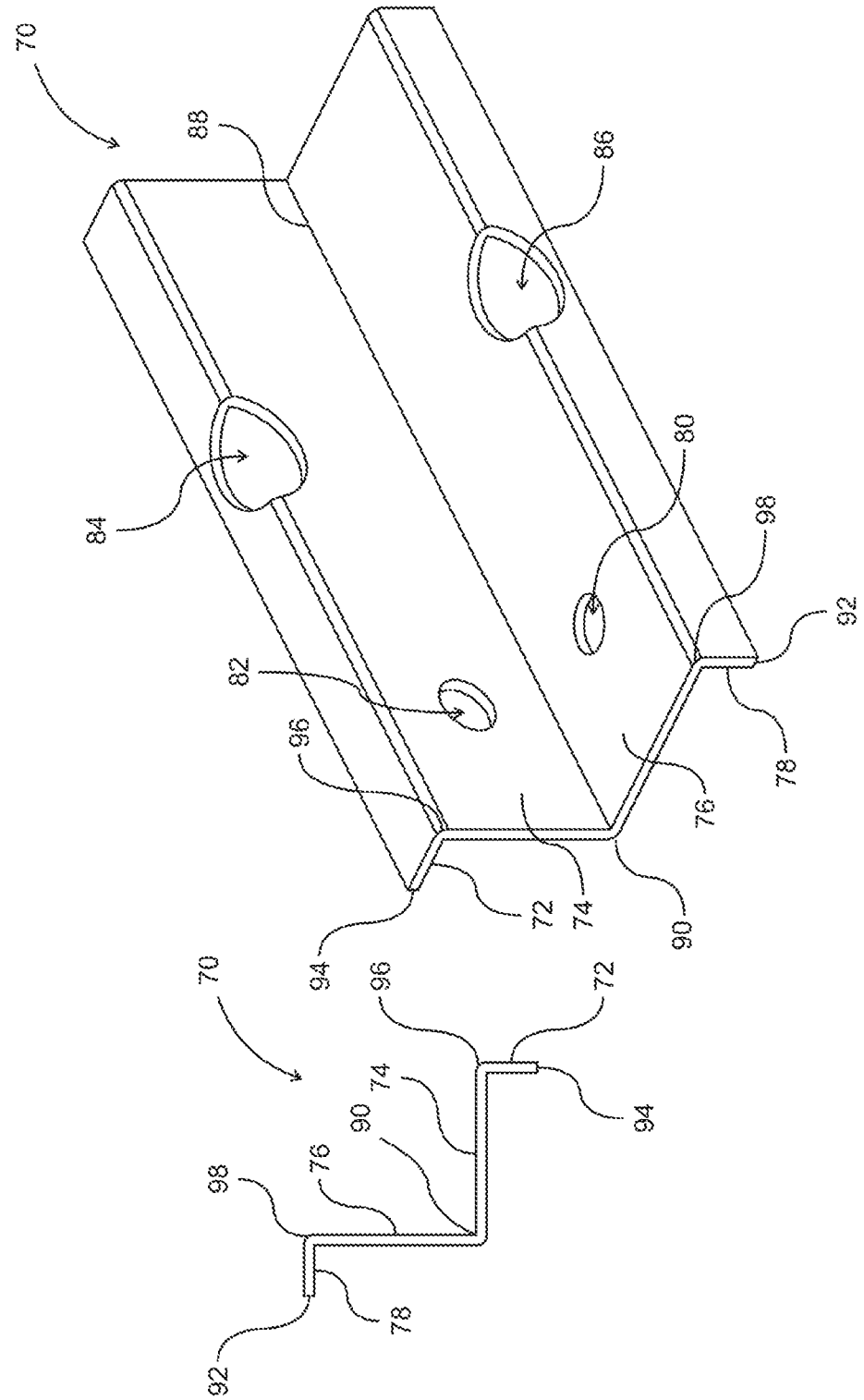
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Fig. 3b

Fig. 3a

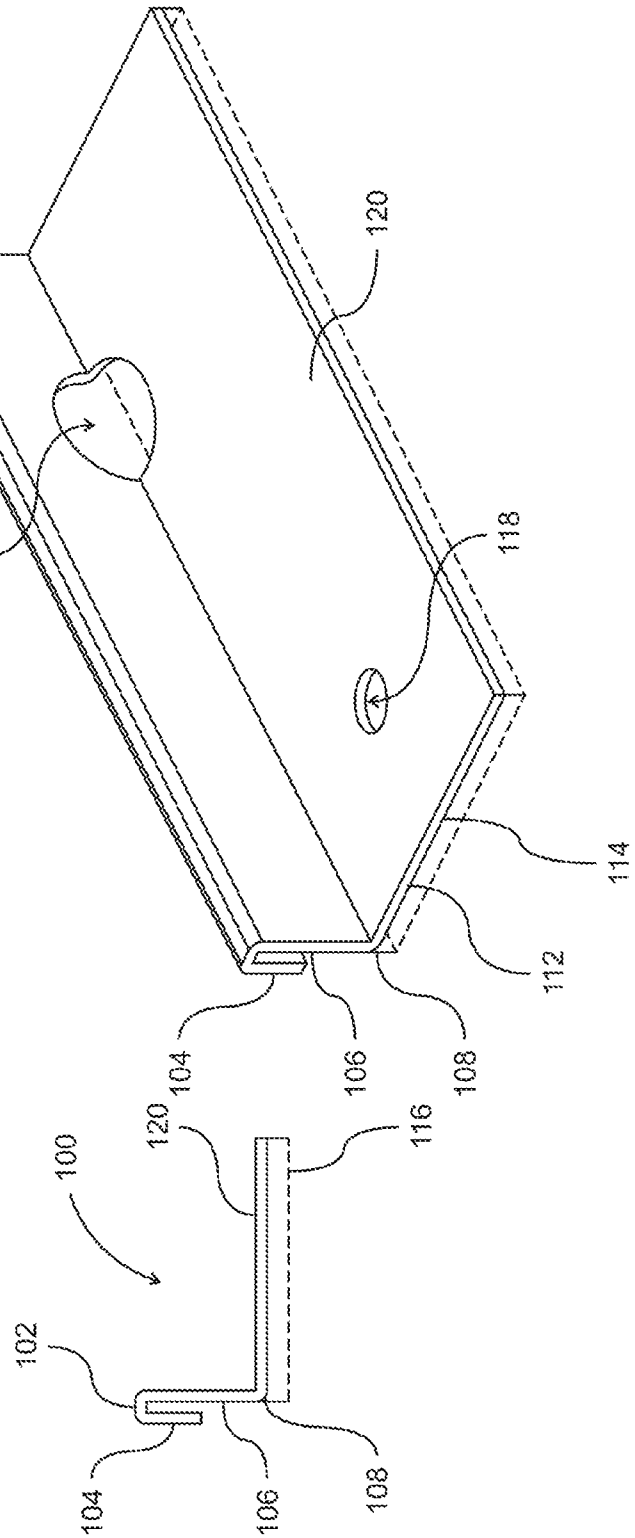
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Fig. 4b

Fig. 4a

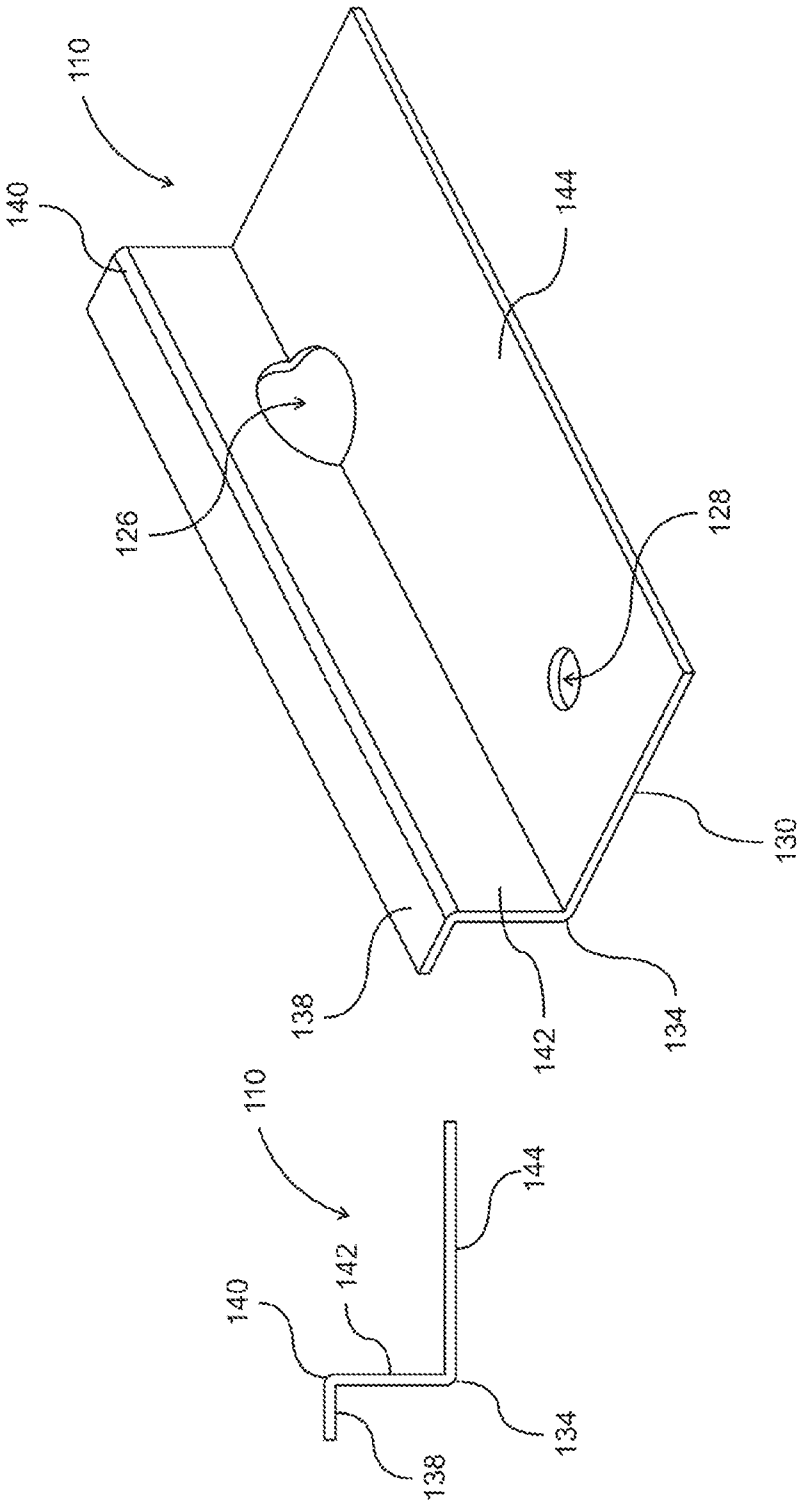


Fig. 4d

Fig. 4c

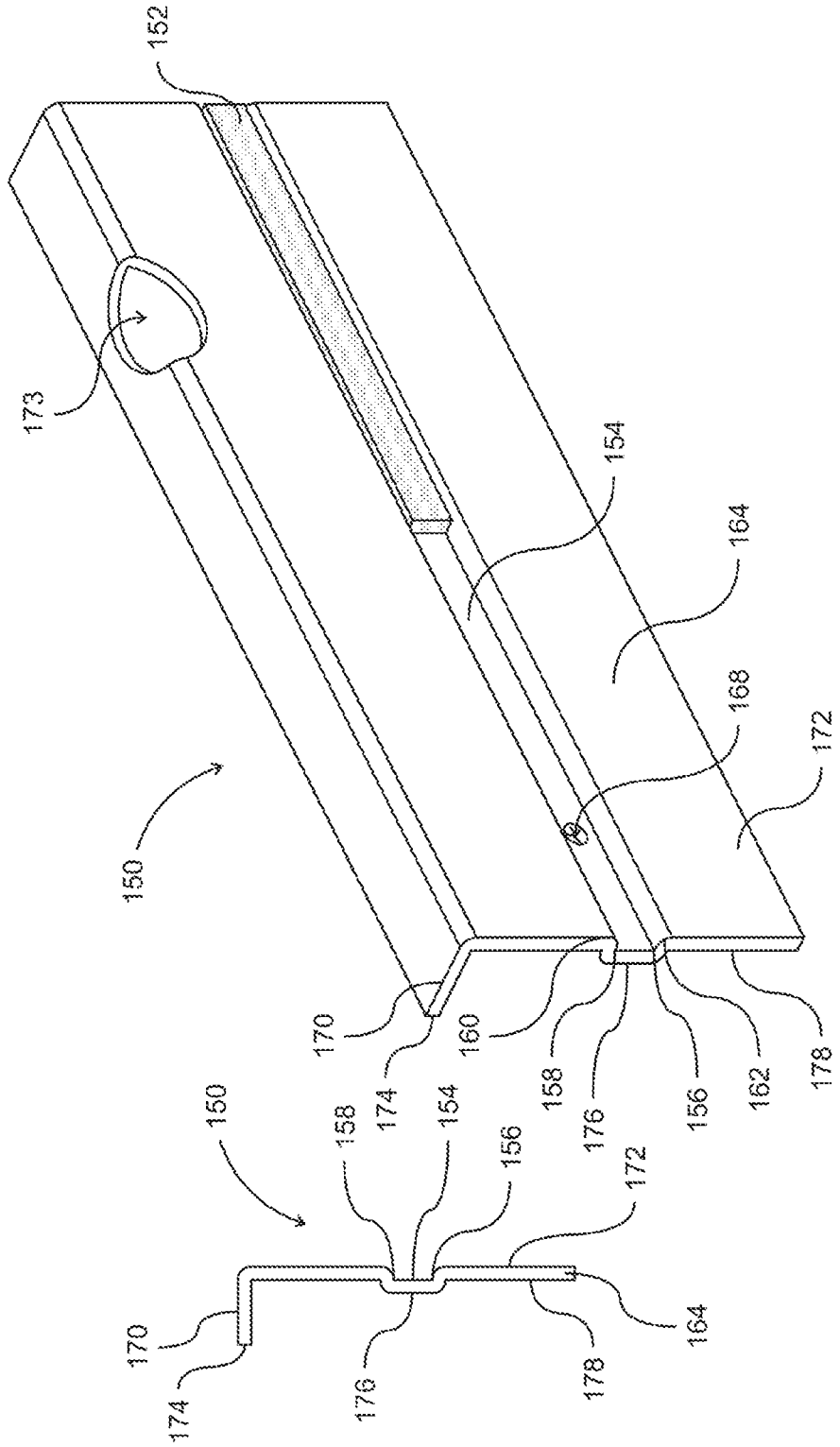
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Fig. 5b


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Fig. 5a

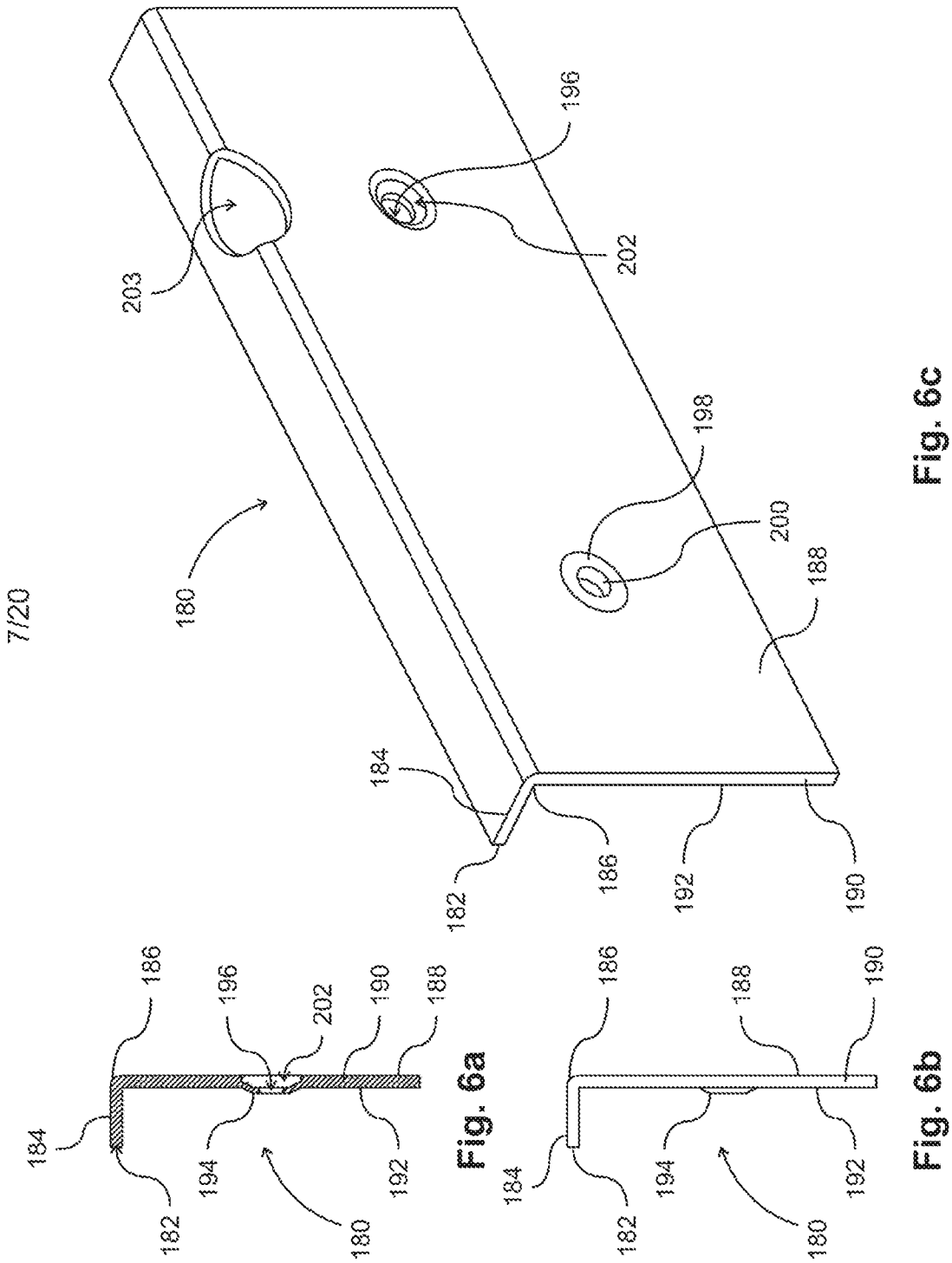
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Fig. 6c
Fig. 6a
Fig. 6b

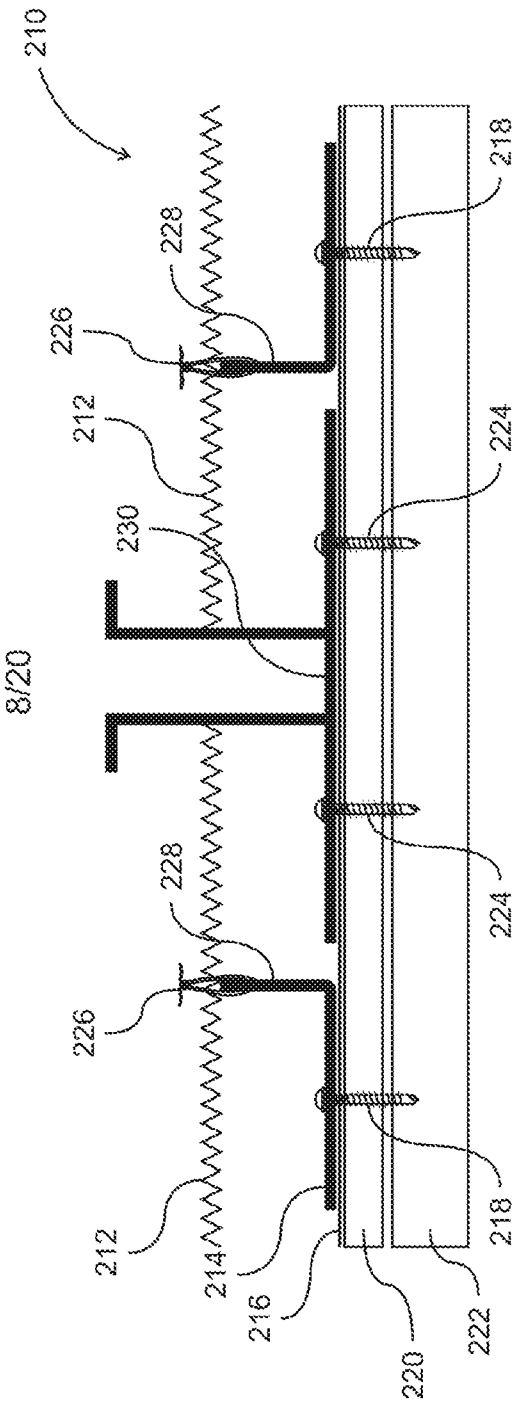
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Fig. 7

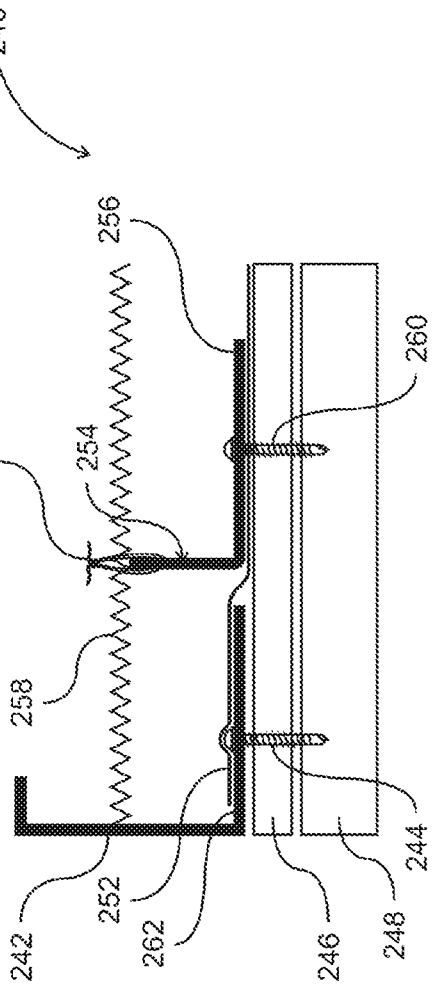
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Fig. 8

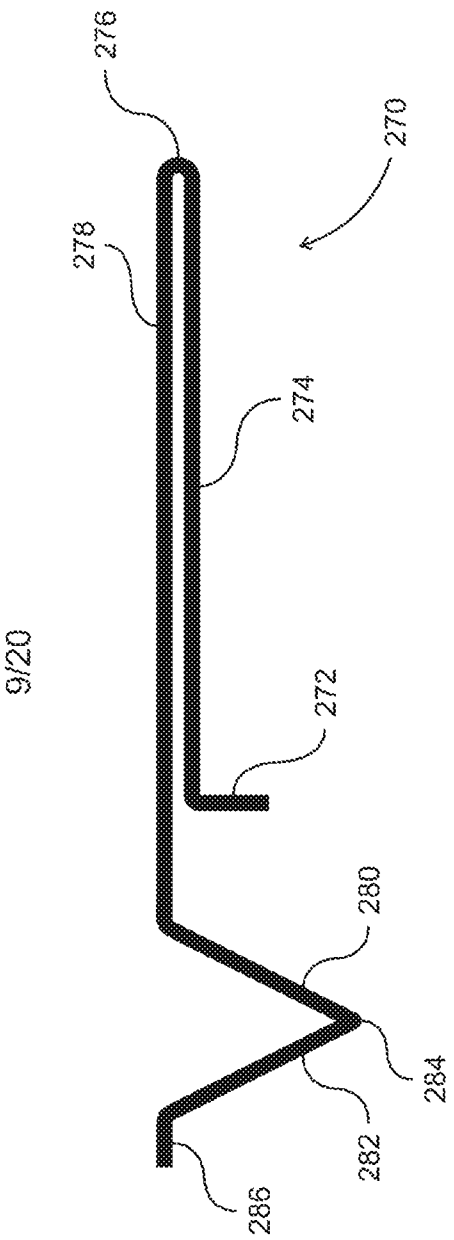
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Fig. 9a

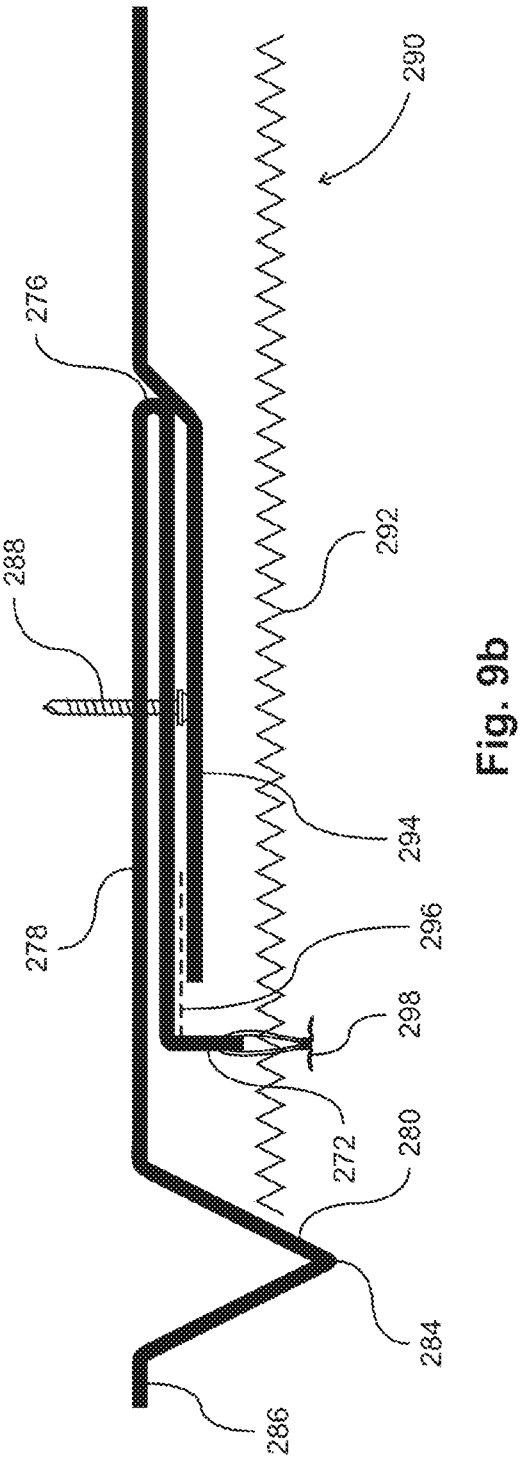
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Fig. 9b

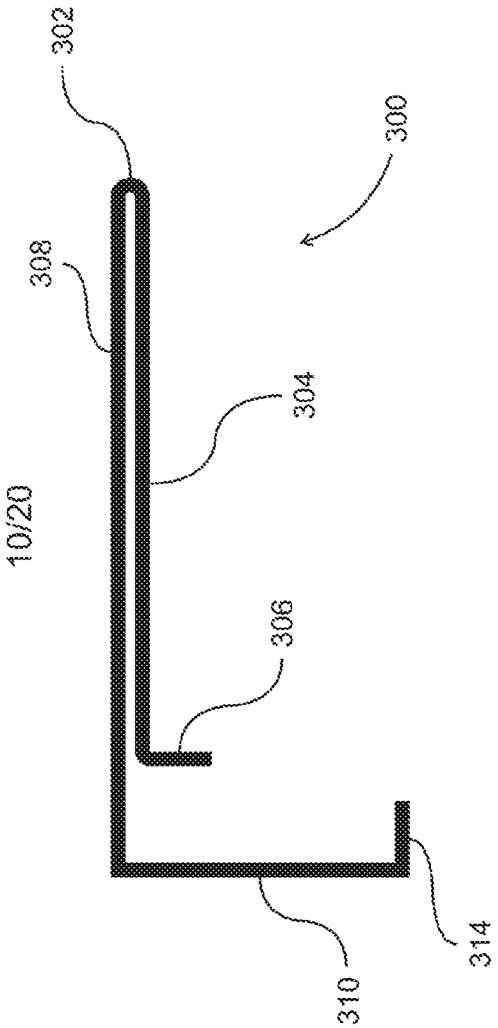


Fig. 10a

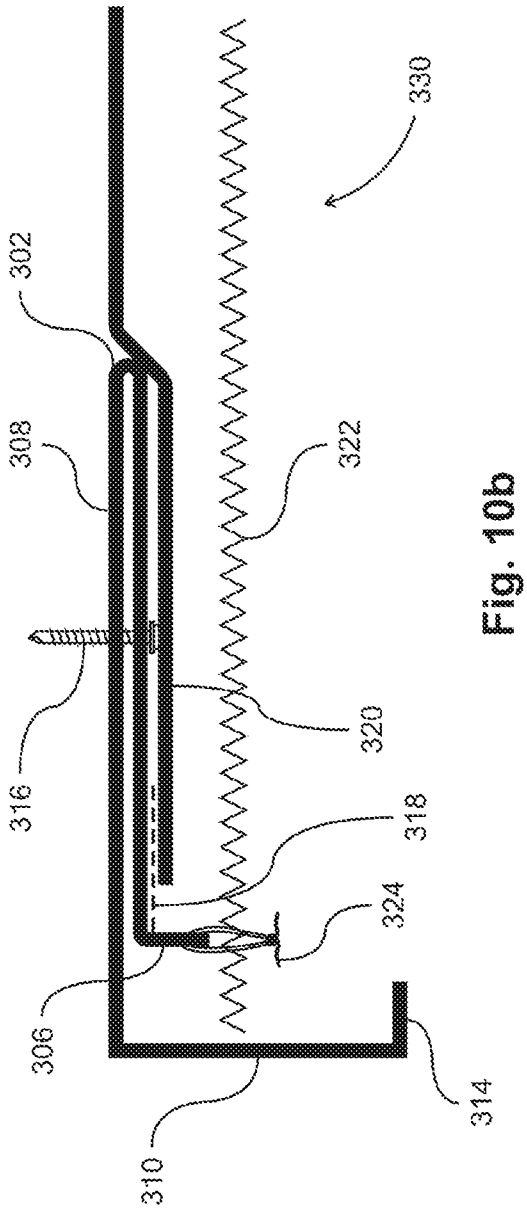


Fig. 10b

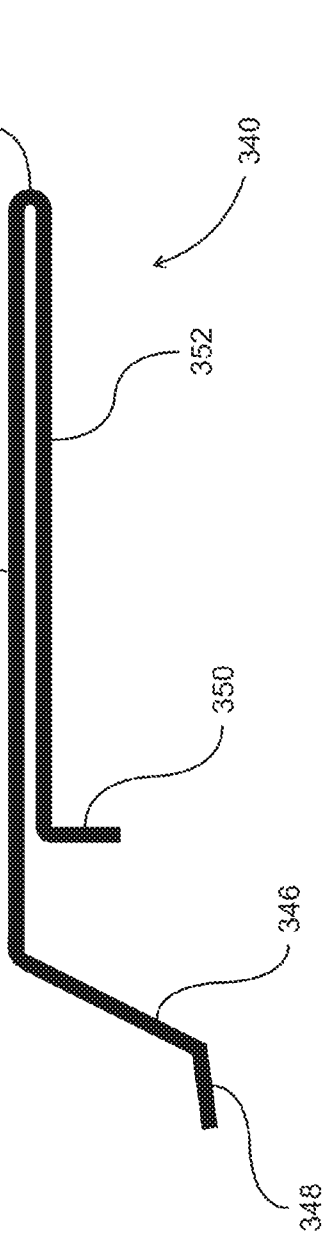


Fig. 11a

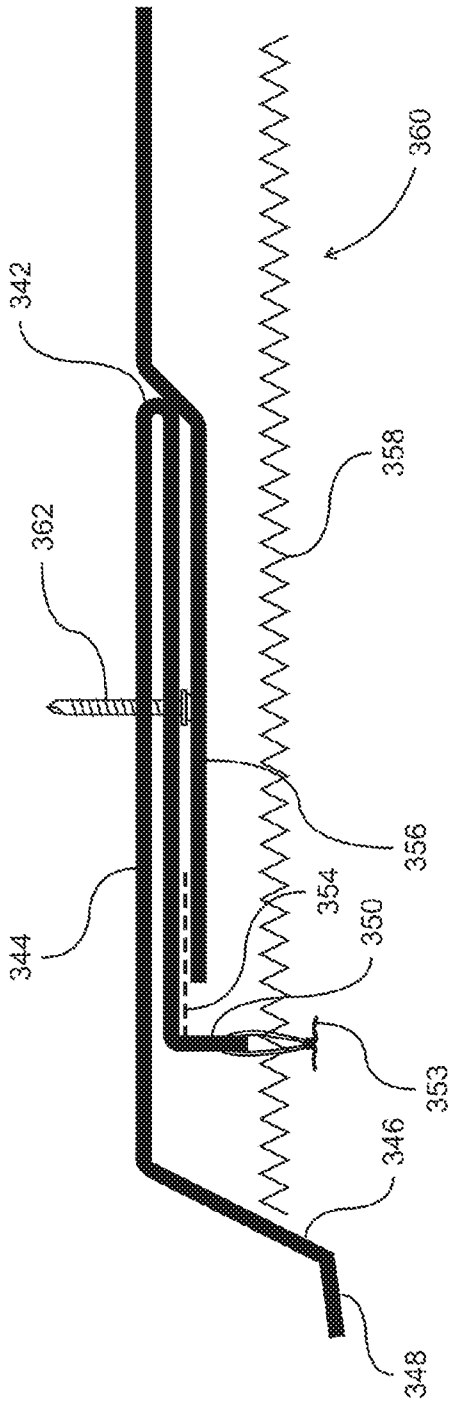


Fig. 11b

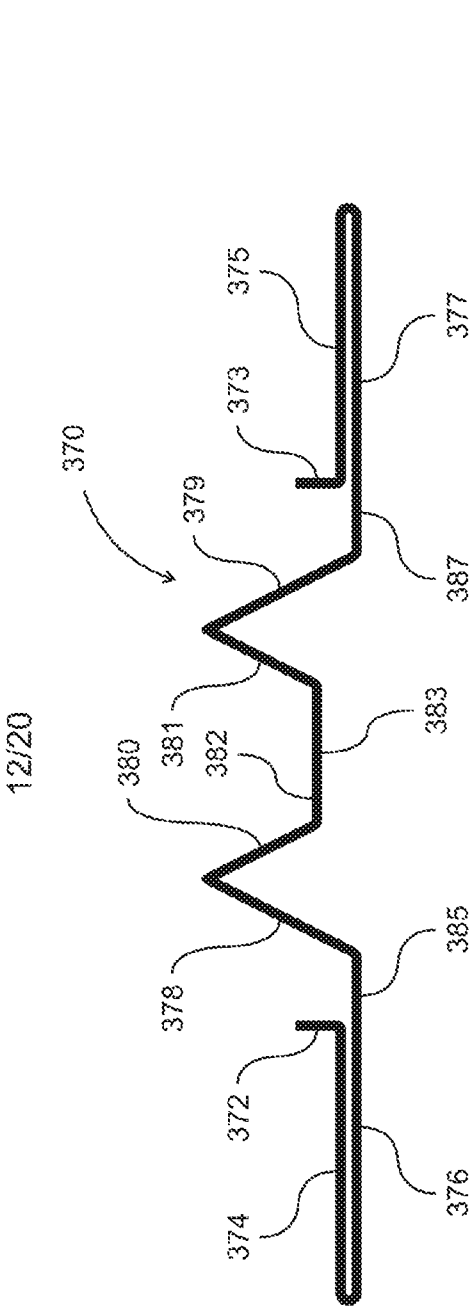


Fig. 12a

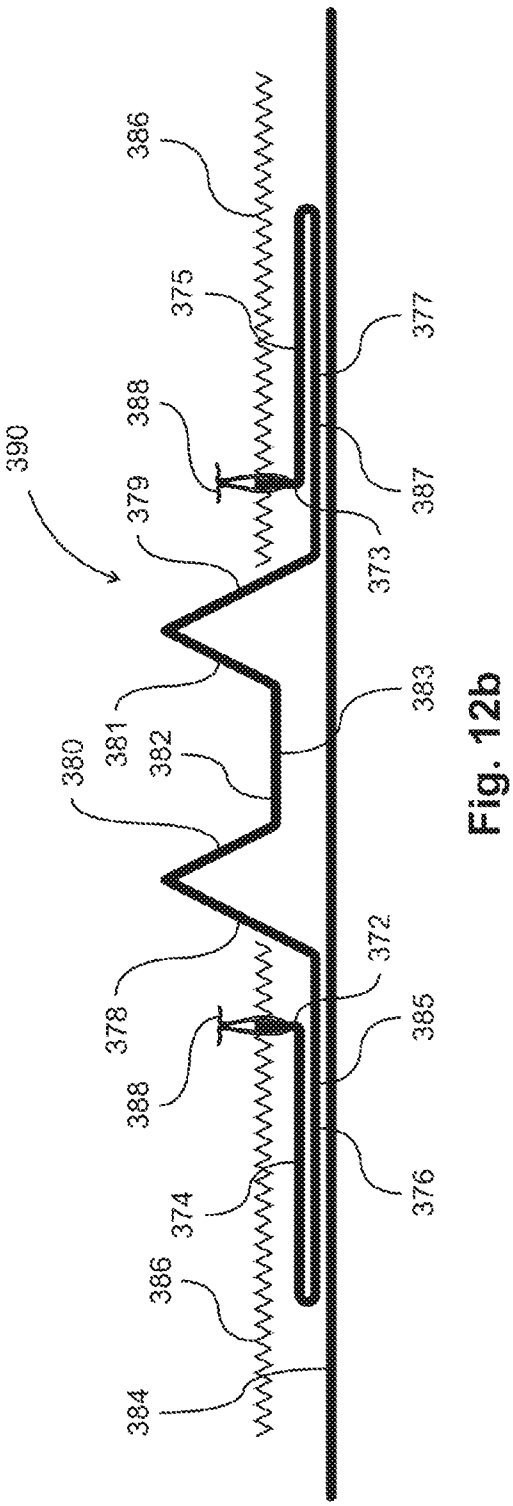


Fig. 12b

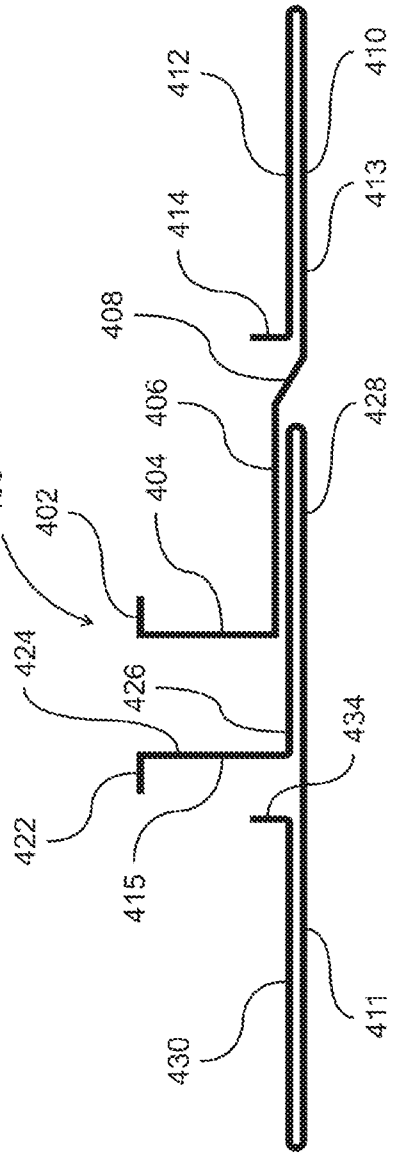


Fig. 13a

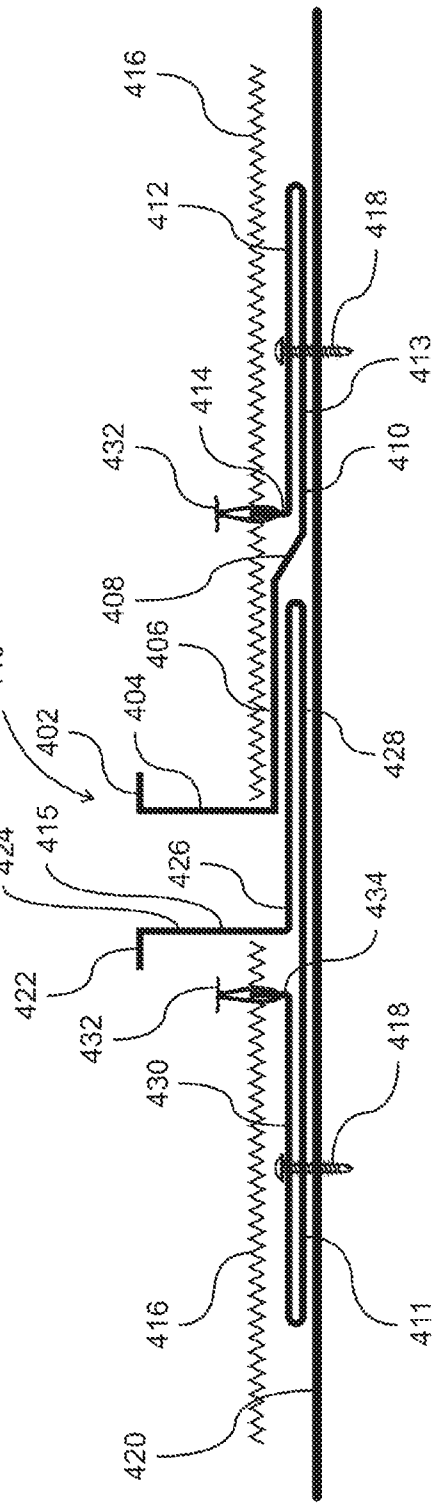


Fig. 13b

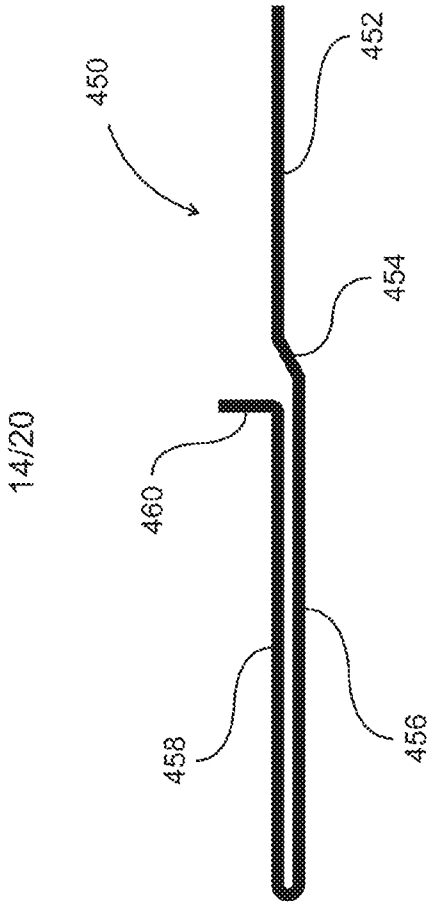


Fig. 14a

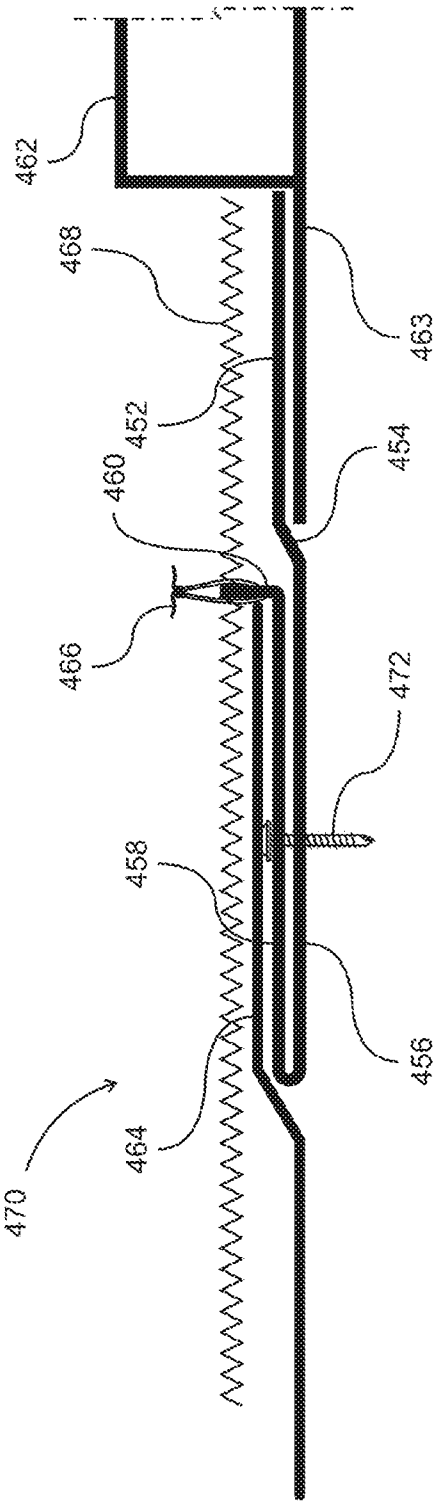


Fig. 14b

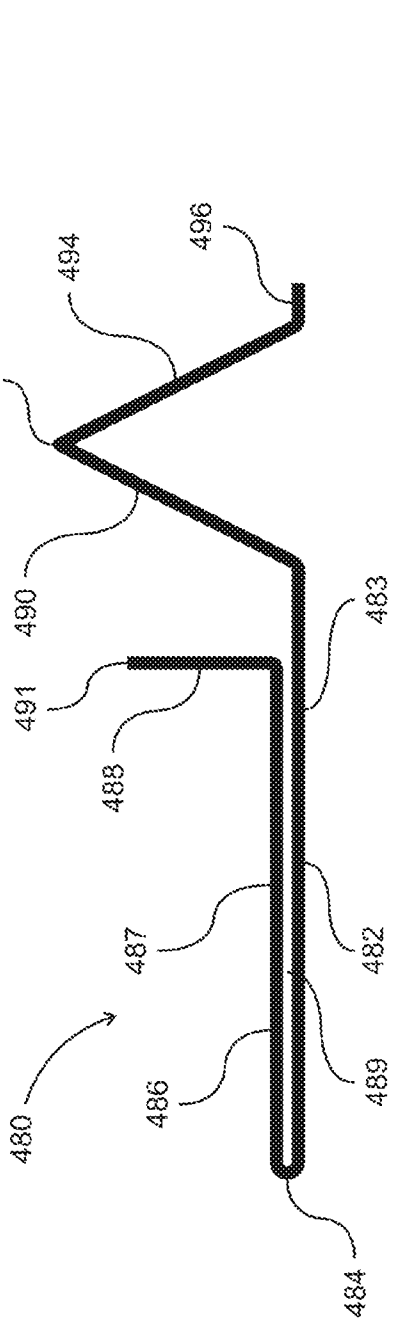


Fig. 15a

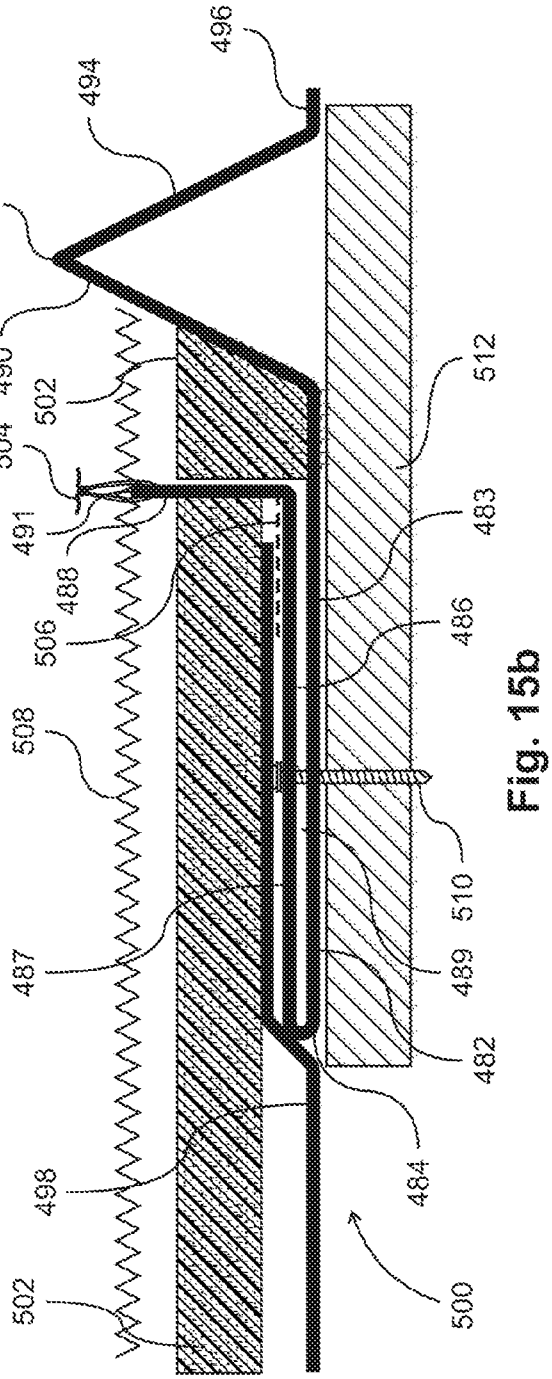


Fig. 15b

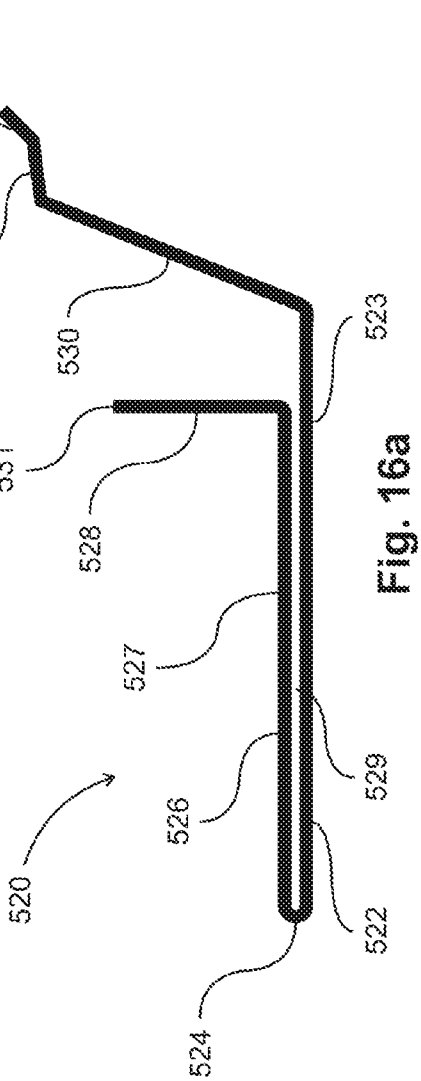


Fig. 16a

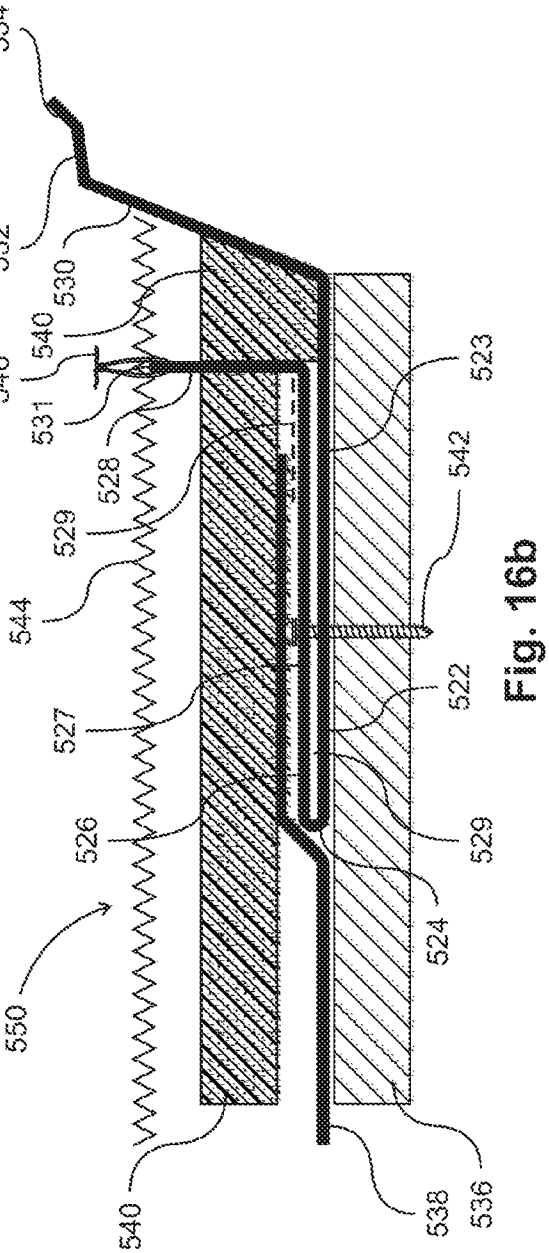


Fig. 16b

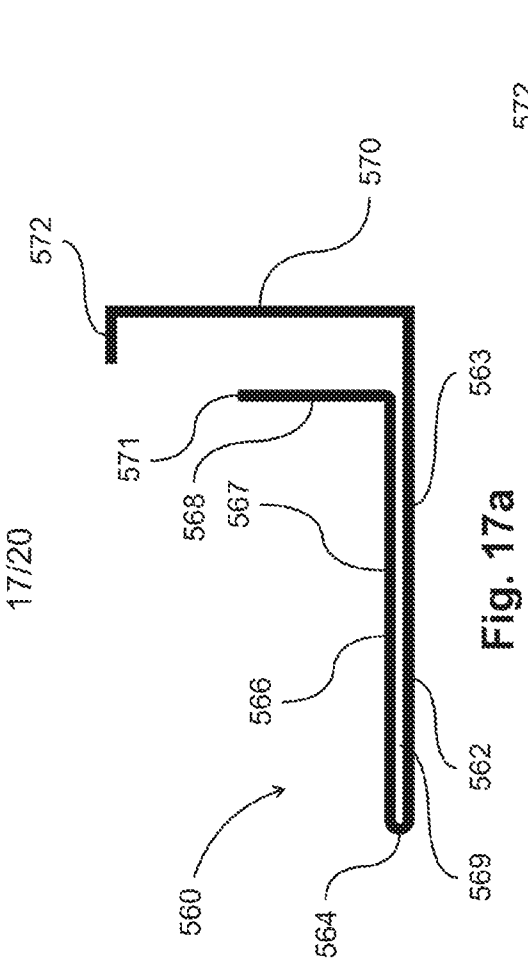


Fig. 17a

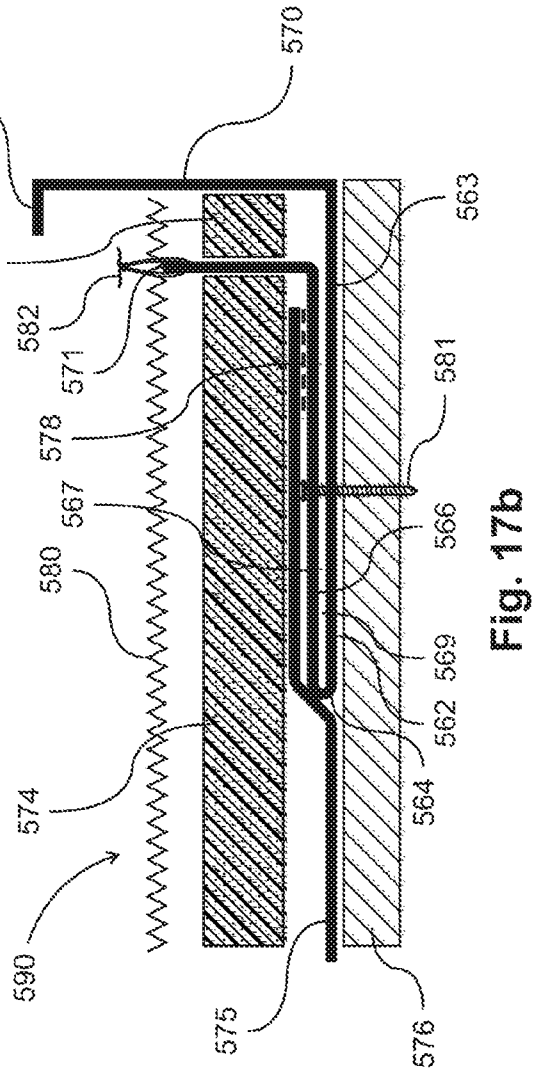


Fig. 17b

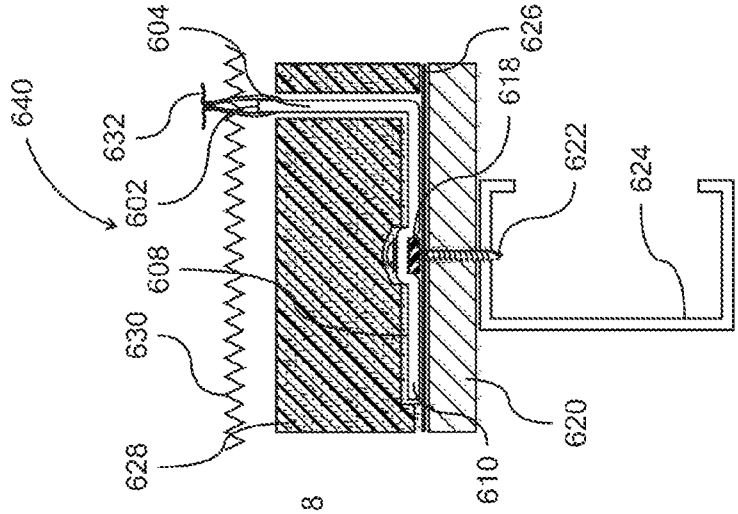


Fig. 18c

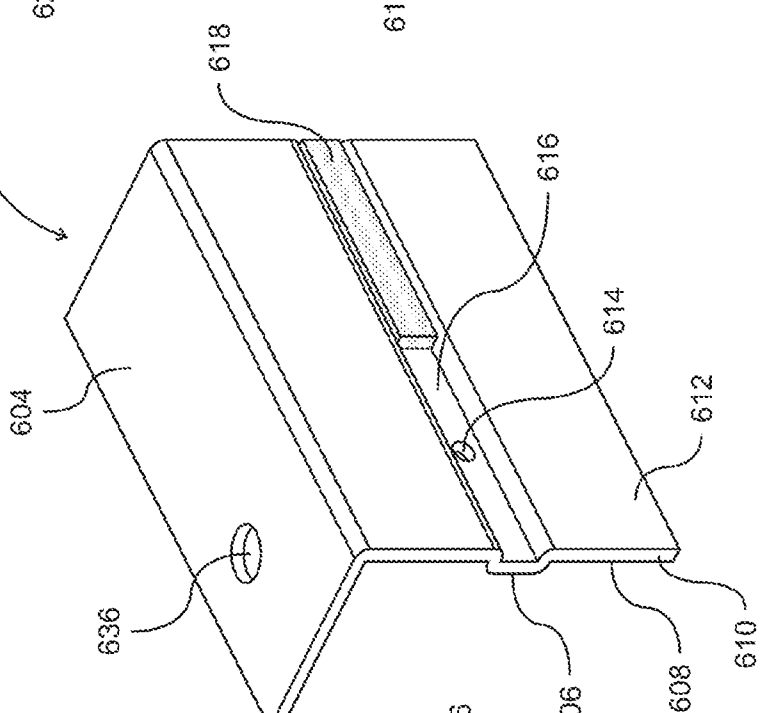


Fig. 18b

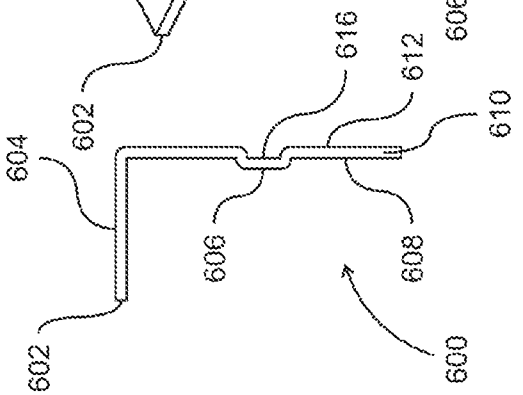


Fig. 18a

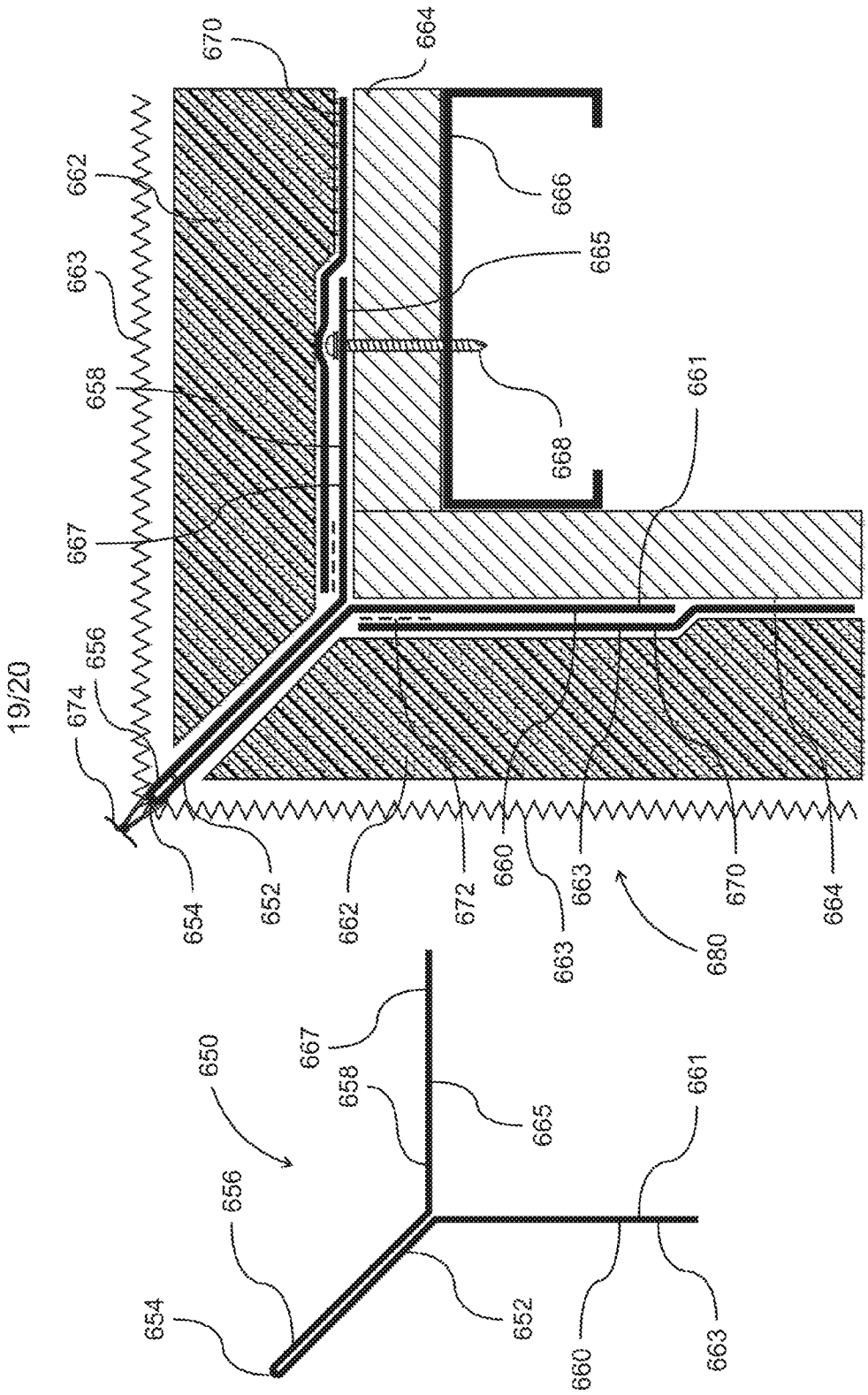


Fig. 19b

Fig. 19a

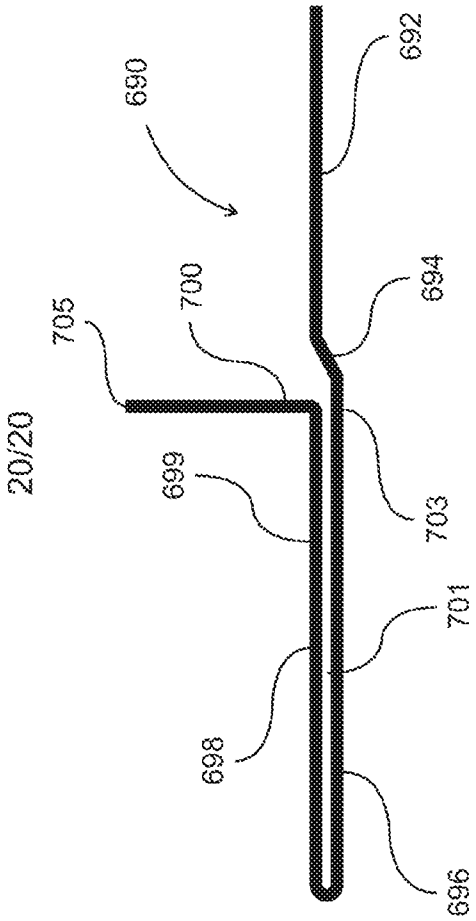


Fig. 20a

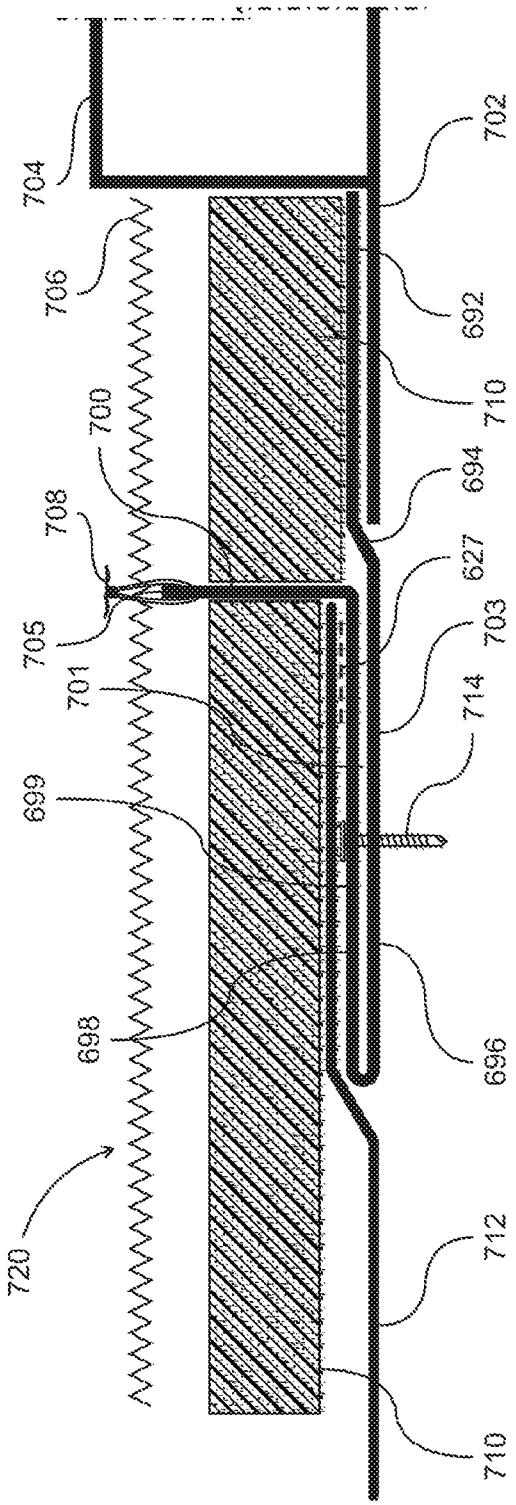


Fig. 20b

# INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2013/034177

A. CLASSIFICATION OF SUBJECT MATTER
IPC(8) - E04F 13/00 (2013.01)
USPC - 52/344
According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC(8) - E04B 2/74, 9/22, 9/24, 9/26; E04F 13/00, 13/04, 13/07, 13/08 (2013.01)
USPC - 52/342, 343, 344, 347, 348, 349, 350, 351, 353, 354, 355, 357, 358, 359, 360, 361, 362, 363, 506.01, 506.08, 508, 509, 511, 712 52/713

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
CPC - E04F 13/00 (2013.01)

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
PatBase, Google Patents

C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category* | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|---|---|---|
| Y | US 5,024,038 A (DEPELLEGRINI et al) 18 June 1991 (18.06.1991) entire document | 1-20 |
| Y | US 2,802,359 A (HOLLISTER) 13 August 1957 (13.08.1957) entire document | 1-26, 31, 36-44 |
| Y | US 6,385,932 B1 (MELCHIORI) 14 May 2002 (14.05.2002) entire document | 5, 7, 17-18, 21 |
| Y | US 2007/0062137 A1 (MAYLON) 22 March 2007 (22.03.2007) entire document | 22-31, 37-44 |
| Y | US 4,785,601 A (TUPMAN) 22 November 1988 (22.11.1988) entire document | 27-36 |
| Y | US 2008/0016808 A1 (PILZ) 24 January 2008 (24.01.2008) entire document | 32-36, 39 |
| A | US 3,881,292 A (PORTER) 06 May 1975 (06.05.1975) entire document | 1-50 |
| A | US 3,517,467 A (PROPST et al) 30 June 1970 (30.06.1970) entire document | 1-50 |

☐ Further documents are listed in the continuation of Box C. ☐

* Special categories of cited documents:
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